

***** STN Columbus *****

FILE 'HOME' ENTERED AT 10:49:58 ON 23 DEC 2003

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On December 14, 2003, the 2004 MeSH terms were loaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and http://www.nlm.nih.gov/pubs/ycbhtml/nd03/nd03_mesh.html for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s palmitoylation
L1 670 PALMITOYLATION

=> s l1(p)receptor#
624950 RECEPTOR#
L2 218 L1(P)RECEPTOR#

=> s l1(p)arrestin#
2922 ARRESTIN#
L3 6 L1(P)ARRESTIN#

=> s l2(p)chimer?
33017 CHIMER?
L4 11 L2(P)CHIMER?

=> d l2 1-218 ti so

L2 ANSWER 1 OF 218 MEDLINE ON STN
TI Functional diversity of endothelin pathways in human lung fibroblasts may be based on structural diversity of the endothelin receptors.
SO Biochemistry, (2003 Dec 2) 42 (47) 13909-18.
Journal code: 0370623. ISSN: 0006-2960.

L2 ANSWER 2 OF 218 MEDLINE ON STN
TI Identification of PSD-93 as a substrate for the Src family tyrosine kinase Fyn.
SO Journal of biological chemistry, (2003 Nov 28) 278 (48) 47610-21.
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 3 OF 218 MEDLINE ON STN
TI ***Palmitoylation*** of the V2 vasopressin ***receptor*** carboxyl tail enhances beta-arrestin recruitment leading to efficient ***receptor*** endocytosis and ERK1/2 activation.
SO Journal of biological chemistry, (2003 Oct 17) 278 (42) 41541-51.
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 4 OF 218 MEDLINE ON STN
TI Multiple determinants for rapid agonist-induced internalization of a nonmammalian gonadotropin-releasing hormone ***receptor***: a putative ***palmitoylation*** site and threonine doublet within the carboxyl-terminal tail are critical.
SO ENDOCRINOLOGY, (2003 Sep) 144 (9) 3860-71.

Journal code: 0375040. ISSN: 0013-7227.

L2 ANSWER 5 OF 218 MEDLINE ON STN
TI Control of signalling efficacy by ***palmitoylation*** of the rat Y1 ***receptor***.
SO British journal of pharmacology, (2003 Jun) 139 (3) 501-12.
Journal code: 7502536. ISSN: 0007-1188.

L2 ANSWER 6 OF 218 MEDLINE ON STN
TI Post-synaptic density-95 promotes calcium/calmodulin-dependent protein kinase II-mediated Ser487 phosphorylation of neuronal nitric oxide synthase.
SO BIOCHEMICAL JOURNAL, (2003 Jun 1) 372 (Pt 2) 465-71.
Journal code: 2984726R. ISSN: 0264-6021.

L2 ANSWER 7 OF 218 MEDLINE ON STN
TI Palmitoylation regulates regulators of G-protein signaling (RGS) 16 function. I. Mutation of amino-terminal cysteine residues on RGS16 prevents its targeting to lipid rafts and palmitoylation of an internal cysteine residue.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 May 23) 278 (21) 19301-8.
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 8 OF 218 MEDLINE ON STN
TI Palmitoylation regulates regulator of G-protein signaling (RGS) 16 function. II. Palmitoylation of a cysteine residue in the RGS box is critical for RGS16 GTPase accelerating activity and regulation of Gi-coupled signalling.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 May 23) 278 (21) 19309-16.
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 9 OF 218 MEDLINE ON STN
TI Does ***palmitoylation*** target estrogen ***receptors*** to plasma membrane caveolae?
SO JUBMB life, (2003 Jan) 55 (1) 33-5.
Journal code: 100888706. ISSN: 1521-6543.

L2 ANSWER 10 OF 218 MEDLINE ON STN
TI Plasma membrane localization and function of the estrogen receptor alpha variant (ER46) in human endothelial cells.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (2003 Apr 15) 100 (8) 4807-12.
Journal code: 7505876. ISSN: 0027-8424.

L2 ANSWER 11 OF 218 MEDLINE ON STN
TI PSD-95 regulates NMDA receptors in developing cerebellar granule neurons of the rat.
SO JOURNAL OF PHYSIOLOGY, (2003 Apr 1) 548 (Pt 1) 21-9.
Journal code: 0266262. ISSN: 0022-3751.

L2 ANSWER 12 OF 218 MEDLINE ON STN
TI Partial rescue of functional interactions of a nonpalmitoylated mutant of the G-protein G alpha s by fusion to the beta-adrenergic receptor.
SO BIOCHEMISTRY, (2003 Mar 11) 42 (9) 2607-15.
Journal code: 0370623. ISSN: 0006-2960.

L2 ANSWER 13 OF 218 MEDLINE ON STN
TI ***Palmitoylation*** of the human prostacyclin ***receptor***. Functional implications of ***palmitoylation*** and isoprenylation.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 Feb 28) 278 (9) 6947-58.
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 14 OF 218 MEDLINE ON STN

- TI HIV-1 entry into T-cells is not dependent on CD4 and CCR5 localization to sphingolipid-enriched, detergent-resistant, raft membrane domains.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 Jan 31) 278 (5) 3153-61.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 15 OF 218 MEDLINE on STN
 TI Lipid raft distribution of CD4 depends on its palmitoylation and association with Lck, and evidence for CD4-induced lipid raft aggregation as an additional mechanism to enhance CD3 signaling.
 SO JOURNAL OF IMMUNOLOGY, (2003 Jan 15) 170 (2) 913-21.
 Journal code: 2985117R. ISSN: 0022-1767.
- L2 ANSWER 16 OF 218 MEDLINE on STN
 TI Phosphorylation of FcγRIIb is required for the receptor-induced actin rearrangement and capping: the role of membrane rafts.
 SO JOURNAL OF CELL SCIENCE, (2003 Feb 1) 116 (Pt 3) 537-50.
 Journal code: 0052457. ISSN: 0021-9533.
- L2 ANSWER 17 OF 218 MEDLINE on STN
 TI Potentiation of GPCR-signaling via membrane targeting of G protein alpha subunits.
 SO JOURNAL OF RECEPTOR AND SIGNAL TRANSDUCTION RESEARCH, (2002 Feb-Nov) 22 (1-4) 267-81.
 Journal code: 9509432. ISSN: 1079-9893.
- L2 ANSWER 18 OF 218 MEDLINE on STN
 TI Role of ***palmitoylation*** /depalmitoylation reactions in G-protein-coupled ***receptor*** function.
 SO PHARMACOLOGY AND THERAPEUTICS, (2003 Jan) 97 (1) 1-33. Ref: 480
 Journal code: 7905840. ISSN: 0163-7258.
- L2 ANSWER 19 OF 218 MEDLINE on STN
 TI Subtype-specific regulation of receptor internalization and recycling by the carboxyl-terminal domains of the human A1 and rat A3 adenosine receptors: consequences for agonist-stimulated translocation of arrestin3.
 SO BIOCHEMISTRY, (2002 Dec 17) 41 (50) 14748-61.
 Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 20 OF 218 MEDLINE on STN
 TI Structural homology discloses a bifunctional structural motif at the N-termini of G alpha proteins.
 SO BIOCHEMISTRY, (2002 Dec 10) 41 (49) 14518-23.
 Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 21 OF 218 MEDLINE on STN
 TI The position of cysteine relative to the transmembrane domain is critical for ***palmitoylation*** of H1, the major subunit of the human asialoglycoprotein ***receptor***.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Dec 6) 277 (49) 47305-12.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 22 OF 218 MEDLINE on STN
 TI Localization of phospholipase D1 to caveolin-enriched membrane via palmitoylation: implications for epidermal growth factor signaling.
 SO MOLECULAR BIOLOGY OF THE CELL, (2002 Nov) 13 (11) 3976-88.
 Journal code: 9201390. ISSN: 1059-1524.
- L2 ANSWER 23 OF 218 MEDLINE on STN
 TI AMPA receptors do the electric slide.
 SO Sci STKE, (2002 Oct 29) 2002 (156) PE45. Ref: 50
 Journal code: 100964423. ISSN: 1525-8882.
- L2 ANSWER 24 OF 218 MEDLINE on STN
 TI Nonpalmitoylated human asialoglycoprotein receptors recycle constitutively but are defective in coated pit-mediated endocytosis, dissociation, and delivery of ligand to lysosomes.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Oct 25) 277 (43) 40844-52.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 25 OF 218 MEDLINE on STN
 TI A fluorescence-based high performance liquid chromatographic method for the characterization of palmitoyl acyl transferase activity.
 SO ANALYTICAL BIOCHEMISTRY, (2002 Sep 1) 308 (1) 160-7.
 Journal code: 0370535. ISSN: 0003-2697.
- L2 ANSWER 26 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** -defective asialoglycoprotein ***receptors*** are normal in their cellular distribution and ability to bind ligand, but are defective in ligand uptake and degradation.
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (2002 Oct 4) 297 (4) 980-6.
 Journal code: 0372516. ISSN: 0006-291X.
- L2 ANSWER 27 OF 218 MEDLINE on STN
 TI Stabilization of caveolin-1 by cellular cholesterol and scavenger receptor class B type I.
 SO BIOCHEMISTRY, (2002 Oct 1) 41 (39) 11931-40.
 Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 28 OF 218 MEDLINE on STN
 TI Expression of the palmitoylation-deficient CD151 weakens the association of alpha 3 beta 1 integrin with the tetraspanin-enriched microdomains and affects integrin-dependent signaling.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Oct 4) 277 (40) 36991-7000.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 29 OF 218 MEDLINE on STN
 TI SNAP-25 traffics to the plasma membrane by a syntaxin-independent mechanism.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Sep 13) 277 (37) 34303-9.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 30 OF 218 MEDLINE on STN
 TI A novel strategy to engineer functional fluorescent inhibitory G-protein alpha subunits.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Aug 9) 277 (32) 28803-9.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 31 OF 218 MEDLINE on STN
 TI Characterization of G proteins involved in activation of nonselective cation channels by endothelin(B) receptor.
 SO BRITISH JOURNAL OF PHARMACOLOGY, (2002 Aug) 136 (7) 1015-22.
 Journal code: 7502536. ISSN: 0007-1188.
- L2 ANSWER 32 OF 218 MEDLINE on STN
 TI Molecular mechanisms for the activation of voltage-independent Ca2+ channels by endothelin-1 in chinese hamster ovary cells stably expressing human endothelin(A) receptors.
 SO MOLECULAR PHARMACOLOGY, (2002 Jul) 62 (1) 75-80.
 Journal code: 0035623. ISSN: 0026-895X.
- L2 ANSWER 33 OF 218 MEDLINE on STN
 TI Light-induced changes in the structure and accessibility of the cytoplasmic loops of rhodopsin in the activated MII state.
 SO BIOCHEMISTRY, (2002 Jun 25) 41 (25) 7875-84.
 Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 34 OF 218 MEDLINE on STN

- TI The minor subunit splice variants, H2b and H2c, of the human asialoglycoprotein receptor are present with the major subunit H1 in different hetero-oligomeric receptor complexes.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Jun 21) 277 (25) 23076-83.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 35 OF 218 MEDLINE on STN
TI Cell surface targeting and clustering interactions between heterologously expressed PSD-95 and the Shal voltage-gated potassium channel, Kv4.2.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Jun 7) 277 (23) 20423-30.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 36 OF 218 MEDLINE on STN
TI The oxygen-substituted palmitic acid analogue, 13-oxypalmitic acid, inhibits Lck localization to lipid rafts and T cell signaling.
SO BIOCHIMICA ET BIOPHYSICA ACTA, (2002 Apr 3) 1589 (2) 140-50.
Journal code: 0217513. ISSN: 0006-3002.
- L2 ANSWER 37 OF 218 MEDLINE on STN
TI Cosignaling of NCAM via lipid rafts and the FGF receptor is required for neurogenesis.
SO JOURNAL OF CELL BIOLOGY, (2002 Apr 29) 157 (3) 521-32.
Journal code: 0375356. ISSN: 0021-9525.
- L2 ANSWER 38 OF 218 MEDLINE on STN
TI Differential ***palmitoylation*** directs the AMPA ***receptor***-binding protein ABP to spines or to intracellular clusters.
SO JOURNAL OF NEUROSCIENCE, (2002 May 1) 22 (9) 3493-503.
Journal code: 8102140. ISSN: 1529-2401.
- L2 ANSWER 39 OF 218 MEDLINE on STN
TI A critical role for the cytoplasmic tail of pTalpha in T lymphocyte development.
SO Nat Immunol, (2002 May) 3 (5) 483-8.
Journal code: 100941354. ISSN: 1529-2908.
- L2 ANSWER 40 OF 218 MEDLINE on STN
TI Synaptic strength regulated by palmitate cycling on PSD-95.
SO CELL, (2002 Mar 22) 108 (6) 849-63.
Journal code: 0413066. ISSN: 0092-8674.
- L2 ANSWER 41 OF 218 MEDLINE on STN
TI Co- and posttranslational modification of the alpha(1B)-adrenergic receptor: effects on receptor expression and function.
SO BIOCHEMISTRY, (2002 Apr 2) 41 (13) 4281-91.
Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 42 OF 218 MEDLINE on STN
TI Regulation of RGS3 and RGS10 palmitoylation by GnRH.
SO ENDOCRINOLOGY, (2002 Apr) 143 (4) 1310-7.
Journal code: 0375040. ISSN: 0013-7272.
- L2 ANSWER 43 OF 218 MEDLINE on STN
TI Non-natural glycosphingolipids and structurally simpler analogues bind HIV-1 recombinant Gp120.
SO BIOORGANIC AND MEDICINAL CHEMISTRY, (2002 Mar) 10 (3) 625-37.
Journal code: 9413298. ISSN: 0968-0896.
- L2 ANSWER 44 OF 218 MEDLINE on STN
TI Molecular mechanism for endothelin-1-induced stress-fiber formation: analysis of G proteins using a mutant endothelin(A) receptor.
SO MOLECULAR PHARMACOLOGY, (2002 Feb) 61 (2) 277-84.
Journal code: 0035623. ISSN: 0026-895X.
- L2 ANSWER 45 OF 218 MEDLINE on STN
TI The 5-hydroxytryptamine(4a) receptor is palmitoylated at two different sites, and acylation is critically involved in regulation of receptor constitutive activity.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Jan 25) 277 (4) 2534-46.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 46 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of the human bradykinin B2 ***receptor*** influences ligand efficacy.
SO BIOCHEMISTRY, (2001 Dec 25) 40 (51) 15743-51.
Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 47 OF 218 MEDLINE on STN
TI LAT, the linker for activation of T cells: a bridge between T cell-specific and general signaling pathways.
SO Sci STKE, (2000 Dec 19) 2000 (63) RE1. Ref: 130
Journal code: 100964423. ISSN: 1525-8882.
- L2 ANSWER 48 OF 218 MEDLINE on STN
TI CD8beta endows CD8 with efficient coreceptor function by coupling T cell receptor/CD3 to raft-associated CD8/p56(lck) complexes.
SO JOURNAL OF EXPERIMENTAL MEDICINE, (2001 Nov 19) 194 (10) 1485-95.
Journal code: 2985109R. ISSN: 0022-1007.
- L2 ANSWER 49 OF 218 MEDLINE on STN
TI Structure-function analysis of Lyn kinase association with lipid rafts and initiation of early signaling events after Pepsilon receptor I aggregation.
SO MOLECULAR AND CELLULAR BIOLOGY, (2001 Dec) 21 (24) 8318-28.
Journal code: 8109087. ISSN: 0270-7306.
- L2 ANSWER 50 OF 218 MEDLINE on STN
TI Coupling of endothelin ***receptors*** to the ERK/MAP kinase pathway. Roles of ***palmitoylation*** and G(alpha)q.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (2001 Oct) 268 (20) 5449-59.
Journal code: 0107600. ISSN: 0014-2956.
- L2 ANSWER 51 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of the vasopressin V1a ***receptor*** reveals different conformational requirements for signaling, agonist-induced ***receptor*** phosphorylation, and sequestration.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Oct 12) 276 (41) 38139-46.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 52 OF 218 MEDLINE on STN
TI C-terminal domain of the Epstein-Barr virus LMP2a membrane protein contains a clustering signal.
SO JOURNAL OF VIROLOGY, (2001 Nov) 75 (22) 10941-9.
Journal code: 0113724. ISSN: 0022-538X.
- L2 ANSWER 53 OF 218 MEDLINE on STN
TI Cellular pharmacology of cerulenin analogs that inhibit protein palmitoylation.
SO BIOCHEMICAL PHARMACOLOGY, (2001 Oct 15) 62 (8) 985-95.
Journal code: 0101032. ISSN: 0006-2952.
- L2 ANSWER 54 OF 218 MEDLINE on STN
TI Coordinated agonist regulation of ***receptor*** and G protein ***palmitoylation*** and functional rescue of ***palmitoylation***-deficient mutants of the G protein G11alpha following fusion to the alpha1b-adrenoreceptor: ***palmitoylation*** of G11alpha is not required for interaction with beta*gamma complex.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Sep 21) 276 (38) 35883-90.
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 55 OF 218 MEDLINE on STN

TI Palmitoylation of caveolin-1 at a single site (Cys-156) controls its coupling to the c-Src tyrosine kinase: targeting of dually acylated molecules (GPI-linked, transmembrane, or cytoplasmic) to caveolae effectively uncouples c-Src and caveolin-1 (TYR-14).

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Sep 14) 276 (37) 35150-8.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 56 OF 218 MEDLINE on STN

TI Characterization of sequence determinants within the carboxyl-terminal domain of chemokine receptor CCR5 that regulate signaling and receptor internalization.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Sep 14) 276 (37) 34408-18.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 57 OF 218 MEDLINE on STN

TI Mechanisms of endothelin receptor subtype-specific targeting to distinct intracellular trafficking pathways.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Sep 7) 276 (36) 34041-50.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 58 OF 218 MEDLINE on STN

TI ***Palmitoylation*** -dependent control of degradation, life span, and membrane expression of the CCR5 ***receptor***.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Aug 24) 276 (34) 31936-44.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 59 OF 218 MEDLINE on STN

TI Cysteine residues of SNAP-25 are required for SNARE disassembly and exocytosis, but not for membrane targeting.

SO BIOCHEMICAL JOURNAL, (2001 Aug 1) 357 (Pt 3) 625-34.

Journal code: 2984726R. ISSN: 0264-6021.

L2 ANSWER 60 OF 218 MEDLINE on STN

TI ***Palmitoylation*** of CCR5 is critical for ***receptor***

trafficking and efficient activation of intracellular signaling pathways.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Jun 29) 276 (26)

23795-804.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 61 OF 218 MEDLINE on STN

TI ***Palmitoylation*** of the canine histamine H2 ***receptor*** occurs at Cys(305) and is important for cell surface targeting.

SO BIOCHIMICA ET BIOPHYSICA ACTA, (2001 Jun 20) 1539 (3) 181-91.

Journal code: 0217513. ISSN: 0006-3002.

L2 ANSWER 62 OF 218 MEDLINE on STN

TI Primary sequence requirements for S-acylation of beta(2)-adrenergic receptor peptides.

SO FEBS LETTERS, (2001 Jun 15) 499 (1-2) 59-64.

Journal code: 0155157. ISSN: 0014-5793.

L2 ANSWER 63 OF 218 MEDLINE on STN

TI Structural determinants influencing the reaction of cysteine-containing peptides with palmitoyl-coenzyme A and other thioesters.

SO BIOCHIMICA ET BIOPHYSICA ACTA, (2001 Feb 9) 1545 (1-2) 278-88.

Journal code: 0217513. ISSN: 0006-3002.

L2 ANSWER 64 OF 218 MEDLINE on STN

TI Binding of regulator of G protein signaling (RGS) proteins to phospholipid bilayers. Contribution of location and/or orientation to Gtpase-activating protein activity.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Jun 8) 276 (23)

20160-6.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 65 OF 218 MEDLINE on STN

TI Molecular biology of channel catfish gonadotropin receptors: 1. Cloning of a functional luteinizing hormone receptor and preovulatory induction of gene expression.

SO BIOLOGY OF REPRODUCTION, (2001 Mar) 64 (3) 1010-8.

Journal code: 0207224. ISSN: 0006-3363.

L2 ANSWER 66 OF 218 MEDLINE on STN

TI Visualization of a functional Galpha q-green fluorescent protein fusion in living cells. Association with the plasma membrane is disrupted by mutational activation and by elimination of ***palmitoylation*** sites, but not by activation mediated by ***receptors*** or AIF4-.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Feb 9) 276 (6) 4227-35.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 67 OF 218 MEDLINE on STN

TI Thioacylation is required for targeting G-protein subunit G(o(alpha) to detergent-insoluble caveolin-containing membrane domains.

SO BIOCHEMICAL JOURNAL, (2001 Apr 15) 355 (Pt 2) 323-31.

Journal code: 2984726R. ISSN: 0264-6021.

L2 ANSWER 68 OF 218 MEDLINE on STN

TI Mammalian sprouty-1 and -2 are membrane-anchored phosphoprotein inhibitors of growth factor signaling in endothelial cells.

SO JOURNAL OF CELL BIOLOGY, (2001 Mar 5) 152 (5) 1087-98.

Journal code: 0375356. ISSN: 0021-9525.

L2 ANSWER 69 OF 218 MEDLINE on STN

TI Regulation of G proteins by covalent modification.

SO ONCOGENE, (2001 Mar 26) 20 (13) 1643-52. Ref: 90

Journal code: 8711562. ISSN: 0950-9232.

L2 ANSWER 70 OF 218 MEDLINE on STN

TI Epstein-Barr virus latent-infection membrane proteins are palmitoylated and raft-associated: protein 1 binds to the cytoskeleton through TNF receptor cytoplasmic factors.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF

AMERICA, (2001 Apr 10) 98 (8) 4675-80.

Journal code: 7505876. ISSN: 0027-8424.

L2 ANSWER 71 OF 218 MEDLINE on STN

TI Differential ***palmitoylation*** of two mouse glutamate

receptor interacting protein 1 forms with different N-terminal sequences.

SO NEUROSCIENCE LETTERS, (2001 May 18) 304 (1-2) 81-4.

Journal code: 7600130. ISSN: 0304-3940.

L2 ANSWER 72 OF 218 MEDLINE on STN

TI ***Palmitoylation*** of the luteinizing hormone/human chorionic gonadotropin ***receptor*** regulates ***receptor*** interaction with the arrestin-mediated internalization pathway.

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (2001 Mar) 268 (6) 1631-9.

Journal code: 0107600. ISSN: 0014-2956.

L2 ANSWER 73 OF 218 MEDLINE on STN

TI 5-Hydroxytryptamine 4(a) receptor expressed in Sf9 cells is palmitoylated in an agonist-dependent manner.

SO BIOCHEMICAL JOURNAL, (2001 Feb 1) 353 (Pt 3) 627-34.

Journal code: 2984726R. ISSN: 0264-6021.

L2 ANSWER 74 OF 218 MEDLINE on STN

TI Syntaxin 11 is an atypical SNARE abundant in the immune system.

SO EUROPEAN JOURNAL OF CELL BIOLOGY, (2000 Nov) 79 (11)

771-80.

Journal code: 7906240. ISSN: 0171-9335.

L2 ANSWER 75 OF 218 MEDLINE on STN

TI Identification of an outer segment targeting signal in the COOH terminus of rhodopsin using transgenic *Xenopus laevis*.

SO JOURNAL OF CELL BIOLOGY, (2000 Dec 25) 151 (7) 1369-80.

Journal code: 0375356. ISSN: 0021-9255.

L2 ANSWER 76 OF 218 MEDLINE on STN

TI The ***palmitoylation*** state of the beta(2)-adrenergic

receptor regulates the synergistic action of cyclic AMP-dependent protein kinase and beta-adrenergic ***receptor*** kinase involved in its phosphorylation and desensitization.

SO JOURNAL OF NEUROCHEMISTRY, (2001 Jan) 76 (1) 269-79.

Journal code: 2985121R. ISSN: 0022-3042.

L2 ANSWER 77 OF 218 MEDLINE on STN

TI Lack of palmitoylation redirects p59Hck from the plasma membrane to p61Hck-positive lysosomes.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Nov 17) 275 (46) 36223-9.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 78 OF 218 MEDLINE on STN

TI Selective accumulation of raft-associated membrane protein LAT in T cell receptor signaling assemblies.

SO JOURNAL OF CELL BIOLOGY, (2000 Oct 16) 151 (2) 199-208.

Journal code: 0375356. ISSN: 0021-9255.

L2 ANSWER 79 OF 218 MEDLINE on STN

TI ***Palmitoylation*** of the p75 neurotrophin ***receptor*** has no effect on its interaction with TrkA or on TrkA-mediated down-regulation of cell adhesion molecules.

SO JOURNAL OF NEUROSCIENCE RESEARCH, (2000 Oct 15) 62 (2) 225-33.

Journal code: 7600111. ISSN: 0360-4012.

L2 ANSWER 80 OF 218 MEDLINE on STN

TI Characterization of RasGRP2, a plasma membrane-targeted, dual specificity Ras/Rap exchange factor.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Oct 13) 275 (41) 32260-7.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 81 OF 218 MEDLINE on STN

TI Stable plasma membrane expression of the soluble domain of the human insulin receptor in yeast.

SO FEBS LETTERS, (2000 Sep 8) 481 (1) 8-12.

Journal code: 0155157. ISSN: 0014-5793.

L2 ANSWER 82 OF 218 MEDLINE on STN

TI Regulation of galpha i ***palmitoylation*** by activation of the 5-hydroxytryptamine-1A ***receptor***.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Aug 4) 275 (31) 23516-22.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 83 OF 218 MEDLINE on STN

TI Acylation of Galpha(13) is important for its interaction with thrombin receptor, transforming activity and actin stress fiber formation.

SO FEBS LETTERS, (2000 Jul 28) 478 (1-2) 173-7.

Journal code: 0155157. ISSN: 0014-5793.

L2 ANSWER 84 OF 218 MEDLINE on STN

TI S-Nitrosocysteine increases palmitate turnover on Ha-Ras in NIH 3T3 cells.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jul 21) 275 (29) 22037-47.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 85 OF 218 MEDLINE on STN

TI Akr1p and the type I casein kinases act prior to the ubiquitination step of yeast endocytosis: Akr1p is required for kinase localization to the plasma membrane.

SO MOLECULAR AND CELLULAR BIOLOGY, (2000 Jul) 20 (14) 5350-9.

Journal code: 8109087. ISSN: 0270-7306.

L2 ANSWER 86 OF 218 MEDLINE on STN

TI Lipids and retroviruses.

SO LIPIDS, (2000 Feb) 35 (2) 123-30. Ref: 77

Journal code: 0060450. ISSN: 0024-4201.

L2 ANSWER 87 OF 218 MEDLINE on STN

TI Dual lipid modification motifs in G(alpha) and G(gamma) subunits are required for full activity of the pheromone response pathway in *Saccharomyces cerevisiae*.

SO MOLECULAR BIOLOGY OF THE CELL, (2000 Mar) 11 (3) 957-68.

Journal code: 9201390. ISSN: 1059-1524.

L2 ANSWER 88 OF 218 MEDLINE on STN

TI Identification of threonine residues controlling the agonist-dependent phosphorylation and desensitization of the rat A(3) adenosine receptor.

SO MOLECULAR PHARMACOLOGY, (2000 Mar) 57 (3) 539-45.

Journal code: 0035623. ISSN: 0026-895X.

L2 ANSWER 89 OF 218 MEDLINE on STN

TI Sequential requirements of the N-terminal palmitoylation site and SH2 domain of Src family kinases in the initiation and progression of Fc epsilonRI signaling.

SO MOLECULAR AND CELLULAR BIOLOGY, (2000 Mar) 20 (5) 1759-71.

Journal code: 8109087. ISSN: 0270-7306.

L2 ANSWER 90 OF 218 MEDLINE on STN

TI Palmitoylation targets CD39/endothelial ATP diphosphohydrolase to caveolae.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 21) 275 (3) 2057-62.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 91 OF 218 MEDLINE on STN

TI The amino terminus of the fourth cytoplasmic loop of rhodopsin modulates rhodopsin-transducin interaction.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 21) 275 (3) 1930-6.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 92 OF 218 MEDLINE on STN

TI ***Palmitoylation*** occurs at cysteine 347 and cysteine 351 of the dopamine D(1) ***receptor***.

SO EUROPEAN JOURNAL OF PHARMACOLOGY, (1999 Dec 15) 386 (2-3) 305-12.

Journal code: 1254354. ISSN: 0014-2999.

L2 ANSWER 93 OF 218 MEDLINE on STN

TI Inhibition of protein palmitoylation, raft localization, and T cell signaling by 2-bromopalmitate and polyunsaturated fatty acids.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 7) 275 (1) 261-70.

Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 94 OF 218 MEDLINE on STN

TI Ethanol-impaired hepatic protein trafficking: concepts from the asialoglycoprotein receptor system.

SO CLINICAL BIOCHEMISTRY, (1999 Oct) 32 (7) 557-61.

Journal code: 0133660. ISSN: 0009-9120.

L2 ANSWER 95 OF 218 MEDLINE on STN

TI Palmitoylation of a conserved cysteine in the regulator of G protein signaling (RGS) domain modulates the GTPase-activating activity of RGS4

- and RGS10.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Dec 31) 274 (53) 38260-7.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 96 OF 218 MEDLINE on STN
TI Palmitoylation of the 25-kDa synaptosomal protein (SNAP-25) in vitro occurs in the absence of an enzyme, but is stimulated by binding to syntaxin.
SO BIOCHEMICAL JOURNAL, (2000 Jan 1) 345 Pt 1 145-51.
Journal code: 2984726R. ISSN: 0264-6021.
- L2 ANSWER 97 OF 218 MEDLINE on STN
TI The bovine mu-opioid receptor: cloning of cDNA and pharmacological characterization of the receptor expressed in mammalian cells.
SO BRAIN RESEARCH. MOLECULAR BRAIN RESEARCH, (1999 Nov 10) 73 (1-2) 129-37.
Journal code: 8908640. ISSN: 0169-328X.
- L2 ANSWER 98 OF 218 MEDLINE on STN
TI Activation of the beta(2)-adrenergic receptor-Galpha(s) complex leads to rapid depalmitoylation and inhibition of repalmitoylation of both the receptor and Galpha(s).
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Oct 22) 274 (43) 31014-9.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 99 OF 218 MEDLINE on STN
TI Alternative splicing produces transcripts encoding four variants of mouse G-protein-coupled receptor kinase 6.
SO GENOMICS, (1999 Sep 1) 60 (2) 199-209.
Journal code: 8800135. ISSN: 0888-7543.
- L2 ANSWER 100 OF 218 MEDLINE on STN
TI Nitric oxide modulates beta(2)-adrenergic ***receptor*** palmitoylation*** and signaling.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Sep 10) 274 (37) 26337-43.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 101 OF 218 MEDLINE on STN
TI CD39 as a caveolar-associated ectonucleotidase.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1999 Sep 7) 262 (3) 596-9.
Journal code: 0372516. ISSN: 0006-291X.
- L2 ANSWER 102 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of the recombinant human A1 adenosine ***receptor***: enhanced proteolysis of ***palmitoylation***-deficient mutant ***receptors***.
SO BIOCHEMICAL JOURNAL, (1999 Sep 1) 342 (Pt 2) 387-95.
Journal code: 2984726R. ISSN: 0264-6021.
- L2 ANSWER 103 OF 218 MEDLINE on STN
TI The ins and outs of caveolar signaling. m2 muscarinic cholinergic receptors and eNOS activation versus neuregulin and ErbB4 signaling in cardiac myocytes.
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Jun 30) 874 11-9. Ref: 39
Journal code: 7506858. ISSN: 0077-8923.
- L2 ANSWER 104 OF 218 MEDLINE on STN
TI Functional proteomics of signal transduction by membrane receptors.
SO ELECTROPHORESIS, (1999 Apr-May) 20 (4-5) 952-61.
Journal code: 8204476. ISSN: 0173-0833.
- L2 ANSWER 105 OF 218 MEDLINE on STN
TI Dual fatty acylation of p59(Fyn) is required for association with the T cell receptor zeta chain through phosphotyrosine-Src homology domain-2 interactions.
SO JOURNAL OF CELL BIOLOGY, (1999 Apr 19) 145 (2) 377-89.
Journal code: 0375356. ISSN: 0021-9525.
- L2 ANSWER 106 OF 218 MEDLINE on STN
TI Correlations in ***palmitoylation*** and multiple phosphorylation of rat bradykinin B2 ***receptor*** in Chinese hamster ovary cells.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Mar 26) 274 (13) 8539-45.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 107 OF 218 MEDLINE on STN
TI Interactions of endothelin receptor subtypes A and B with Gi, Go, and Gq in reconstituted phospholipid vesicles.
SO BIOCHEMISTRY, (1999 Mar 9) 38 (10) 3090-9.
Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 108 OF 218 MEDLINE on STN
TI Retainment of membrane binding capacity of non-palmitoylated Gs alpha mutants expressed in COS-1 cells.
SO EXPERIMENTAL AND MOLECULAR MEDICINE, (1998 Dec 31) 30 (4) 235-9.
Journal code: 9607880. ISSN: 1226-3613.
- L2 ANSWER 109 OF 218 MEDLINE on STN
TI rltXK encodes two forms of a novel cysteine string tyrosine kinase activated by Src family kinases.
SO MOLECULAR AND CELLULAR BIOLOGY, (1999 Feb 19) 19 (2) 1498-507.
Journal code: 8109087. ISSN: 0270-7306.
- L2 ANSWER 110 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of the rat mu opioid ***receptor***.
SO FEBS LETTERS, (1998 Dec 11) 441 (1) 148-52.
Journal code: 00145157. ISSN: 0014-5793.
- L2 ANSWER 111 OF 218 MEDLINE on STN
TI Agonist-mediated downregulation of G alpha i via the alpha 2-adrenergic receptor is targeted by receptor-Gi interaction and is independent of receptor signaling and regulation.
SO BIOCHEMISTRY, (1998 Nov 10) 37 (45) 15720-5.
Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 112 OF 218 MEDLINE on STN
TI Stabilization of mutant 46-kDa mannose 6-phosphate receptors by proteasomal inhibitor lactacystin.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Dec 11) 273 (50) 33254-8.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 113 OF 218 MEDLINE on STN
TI ***Palmitoylation*** increases the kinase activity of the G protein-coupled ***receptor*** kinase, GRK6.
SO BIOCHEMISTRY, (1998 Nov 17) 37 (46) 16053-9.
Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 114 OF 218 MEDLINE on STN
TI G protein-coupled receptor kinases.
SO ANNUAL REVIEW OF BIOCHEMISTRY, (1998) 67 653-92. Ref: 255
Journal code: 2985150R. ISSN: 0066-4154.
- L2 ANSWER 115 OF 218 MEDLINE on STN
TI Serotonin-mediated palmitoylation and depalmitoylation of G alpha proteins in rat brain cortical membranes.
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1998 Sep) 286 (3) 1482-9.
Journal code: 0376362. ISSN: 0022-3565.

- L2 ANSWER 116 OF 218 MEDLINE on STN
 TI Gonadotropin-releasing hormone ***receptor*** couples to multiple G proteins in rat gonadotrophs and in GGH3 cells: evidence from ***palmitoylation*** and overexpression of G proteins.
 SO BIOLOGY OF REPRODUCTION, (1998 Sep) 59 (3) 579-86.
 Journal code: 0207224. ISSN: 0006-3363.
- L2 ANSWER 117 OF 218 MEDLINE on STN
 TI The cytoplasmic tail of the human somatostatin receptor type 5 is crucial for interaction with adenylate cyclase and in mediating desensitization and internalization.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Aug 14) 273 (33) 21416-22.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 118 OF 218 MEDLINE on STN
 TI The PH domain and the polybasic c domain of cytohesin-1 cooperate specifically in plasma membrane association and cellular function.
 SO MOLECULAR BIOLOGY OF THE CELL, (1998 Aug) 9 (8) 1981-94.
 Journal code: 9201390. ISSN: 1059-1524.
- L2 ANSWER 119 OF 218 MEDLINE on STN
 TI A cysteine-11 to serine mutant of G alpha12 impairs activation through the thrombin receptor.
 SO FEBS LETTERS, (1998 Jun 16) 429 (3) 370-4.
 Journal code: 0155157. ISSN: 0014-5793.
- L2 ANSWER 120 OF 218 MEDLINE on STN
 TI Functional characterization of a series of mutant G protein alpha subunits displaying promiscuous receptor coupling properties.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Jul 10) 273 (28) 17886-92.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 121 OF 218 MEDLINE on STN
 TI Regulation of G protein signalling in yeast.
 SO SEMINARS IN CELL AND DEVELOPMENTAL BIOLOGY, (1998 Apr) 9 (2) 135-41. Ref: 53
 Journal code: 9607332. ISSN: 1084-9521.
- L2 ANSWER 122 OF 218 MEDLINE on STN
 TI Cysteine residues in the carboxyl terminal domain of the endothelin-B receptor are required for coupling with G-proteins.
 SO JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, (1998) 31 Suppl 1 S230-2.
 Journal code: 7902492. ISSN: 0160-2446.
- L2 ANSWER 123 OF 218 MEDLINE on STN
 TI Subtype-specific endothelin-A and endothelin-B receptor desensitization correlates with differential receptor phosphorylation.
 SO JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, (1998) 31 Suppl 1 S203-6.
 Journal code: 7902492. ISSN: 0160-2446.
- L2 ANSWER 124 OF 218 MEDLINE on STN
 TI Formation of the 67-kDa laminin receptor by acylation of the precursor.
 SO JOURNAL OF CELLULAR BIOCHEMISTRY, (1998 Jun 1) 69 (3) 244-51.
 Journal code: 8205768. ISSN: 0730-2312.
- L2 ANSWER 125 OF 218 MEDLINE on STN
 TI Unique regulatory properties of the type 2a Ca2+ channel beta subunit caused by palmitoylation.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1998 Apr 14) 95 (8) 4690-5.
 Journal code: 7505876. ISSN: 0027-8424.
- L2 ANSWER 126 OF 218 MEDLINE on STN
 TI Mechanism of nicotinic acetylcholine receptor cluster formation by rapsyn.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1998 Mar 31) 95 (7) 4007-12.
 Journal code: 7505876. ISSN: 0027-8424.
- L2 ANSWER 127 OF 218 MEDLINE on STN
 TI Tunicamycin in combination with retinoic acid synergistically inhibits cell growth while decreasing palmitoylation and enhancing retinoylation of proteins in human breast cancer cell line MCF-7.
 SO ONCOLOGY RESEARCH, (1997) 9 (10) 527-33.
 Journal code: 9208097. ISSN: 0965-0407.
- L2 ANSWER 128 OF 218 MEDLINE on STN
 TI GAP-43 augmentation of G protein-mediated signal transduction is regulated by both phosphorylation and palmitoylation.
 SO JOURNAL OF NEUROCHEMISTRY, (1998 Mar) 70 (3) 983-92.
 Journal code: 2985190R. ISSN: 0022-3042.
- L2 ANSWER 129 OF 218 MEDLINE on STN
 TI N-terminal palmitoylation of PSD-95 regulates association with cell membranes and interaction with K+ channel Kv1.4.
 SO NEURON, (1998 Jan) 20 (1) 125-34.
 Journal code: 8809320. ISSN: 0896-6273.
- L2 ANSWER 130 OF 218 MEDLINE on STN
 TI Influence of the cytosolic carboxyl termini of human B1 and B2 kinin receptors on receptor sequestration, ligand internalization, and signal transduction.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Jan 30) 273 (5) 2617-23.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 131 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** of human thyrotropin ***receptor***: slower intracellular trafficking of the ***palmitoylation***-defective mutant.
 SO ENDOCRINOLOGY, (1998 Feb) 139 (2) 803-6.
 Journal code: 0375040. ISSN: 0013-7227.
- L2 ANSWER 132 OF 218 MEDLINE on STN
 TI Plasma membrane localization of G alpha z requires two signals.
 SO MOLECULAR BIOLOGY OF THE CELL, (1998 Jan) 9 (1) 1-14.
 Journal code: 9201390. ISSN: 1059-1524.
- L2 ANSWER 133 OF 218 MEDLINE on STN
 TI Structure determination of the fourth cytoplasmic loop and carboxyl terminal domain of bovine rhodopsin.
 SO MOLECULAR VISION, (1996 Dec 29) 2 12.
 Journal code: 9605351. ISSN: 1090-0535.
- L2 ANSWER 134 OF 218 MEDLINE on STN
 TI Enhanced stimulatory adenylyl cyclase signaling during opioid dependence is associated with a reduction in palmitoylated Gs alpha.
 SO MOLECULAR PHARMACOLOGY, (1997 Dec) 52 (6) 993-9.
 Journal code: 0035623. ISSN: 0026-895X.
- L2 ANSWER 135 OF 218 MEDLINE on STN
 TI Molecular cloning, structure, and expression of a testicular follitropin receptor with selective alteration in the carboxy terminus that affects signaling function.
 SO MOLECULAR REPRODUCTION AND DEVELOPMENT, (1997 Dec) 48 (4) 458-70.
 Journal code: 8903333. ISSN: 1040-452X.
- L2 ANSWER 136 OF 218 MEDLINE on STN
 TI Analysis of the N-terminal binding domain of Go alpha.

- SO BIOCHEMICAL JOURNAL, (1997 Nov 15) 328 (Pt 1) 23-31.
Journal code: 2984726R. ISSN: 0264-6021.
- L2 ANSWER 137 OF 218 MEDLINE on STN
TI Angiotensin analogues palmitoylated in positions 1 and 4.
SO JOURNAL OF MEDICINAL CHEMISTRY, (1997 Sep 26) 40 (20) 3271-9.
Journal code: 9716531. ISSN: 0022-2623.
- L2 ANSWER 138 OF 218 MEDLINE on STN
TI Inhibition of brain Gz GAP and other RGS proteins by palmitoylation of G protein alpha subunits.
SO SCIENCE, (1997 Nov 7) 278 (5340) 1132-5.
Journal code: 0404511. ISSN: 0036-8075.
- L2 ANSWER 139 OF 218 MEDLINE on STN
TI GTP-binding-protein-coupled receptor kinases--two mechanistic models.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1997 Sep 1) 248 (2) 261-9. Ref: 101
Journal code: 0107600. ISSN: 0014-2956.
- L2 ANSWER 140 OF 218 MEDLINE on STN
TI Altered activity of ***palmitoylation*** deficient and isoprenylated forms of the G protein-coupled ***receptor*** kinase GRK6.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Oct 24) 272 (43) 27422-7.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 141 OF 218 MEDLINE on STN
TI Rescue of functional interactions between the alpha2A-adrenoreceptor and acylation-resistant forms of G11alpha by expressing the proteins from chimeric open reading frames.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Sep 26) 272 (39) 24673-8.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 142 OF 218 MEDLINE on STN
TI Desensitization of norepinephrine receptor function is associated with G protein uncoupling in the rat aorta.
SO AMERICAN JOURNAL OF PHYSIOLOGY, (1997 Jul) 273 (1 Pt 2) H279-85.
Journal code: 0370511. ISSN: 0002-9513.
- L2 ANSWER 143 OF 218 MEDLINE on STN
TI The N-terminal extension of Galphaq is critical for constraining the selectivity of receptor coupling.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Aug 1) 272 (31) 19107-10.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 144 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of the V2 vasopressin ***receptor***.
SO MOLECULAR PHARMACOLOGY, (1997 Jul) 52 (1) 21-9.
Journal code: 0035623. ISSN: 0026-895X.
- L2 ANSWER 145 OF 218 MEDLINE on STN
TI The stoichiometry of G alpha(s) palmitoylation in its basal and activated states.
SO BIOCHEMISTRY, (1997 Jun 10) 36 (23) 7185-91.
Journal code: 0370623. ISSN: 0006-8960.
- L2 ANSWER 146 OF 218 MEDLINE on STN
TI Transduction is a major factor influencing receptor characterization.
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1997 May 30) 812 29-40. Ref: 49
Journal code: 7506858. ISSN: 0077-8923.
- L2 ANSWER 147 OF 218 MEDLINE on STN
- TI Interaction of the G-protein G11alpha with ***receptors*** and phosphoinositidase C: the contribution of G-protein ***palmitoylation*** and membrane association.
SO FEBS LETTERS, (1997 May 5) 407 (3) 257-60.
Journal code: 0155157. ISSN: 0014-5793.
- L2 ANSWER 148 OF 218 MEDLINE on STN
TI Regulation of G(q/1)alpha by the gonadotropin-releasing hormone receptor.
SO MOLECULAR ENDOCRINOLOGY, (1997 Jun) 11 (6) 738-46.
Journal code: 8801431. ISSN: 0888-8809.
- L2 ANSWER 149 OF 218 MEDLINE on STN
TI The mechanism and functional roles of protein palmitoylation in the nervous system.
SO NEUROPEDIATRICS, (1997 Feb) 28 (1) 23-6. Ref: 47
Journal code: 8101187. ISSN: 0174-304X.
- L2 ANSWER 150 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of muscarinic acetylcholine ***receptor*** m2 subtypes: reduction in their ability to activate G proteins by mutation of a putative ***palmitoylation*** site, cysteine 457, in the carboxyl-terminal tail.
SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1997 Apr 15) 340 (2) 376-82.
Journal code: 0372430. ISSN: 0003-9861.
- L2 ANSWER 151 OF 218 MEDLINE on STN
TI Receptor-induced beta gamma release from fatty acylation-deficient mutants of G alpha z.
SO NEUROREPORT, (1997 Mar 3) 8 (4) 937-40.
Journal code: 9100935. ISSN: 0959-4965.
- L2 ANSWER 152 OF 218 MEDLINE on STN
TI Elimination of ***palmitoylation*** sites in the human dopamine D1 ***receptor*** does not affect ***receptor*** -G protein interaction.
SO EUROPEAN JOURNAL OF PHARMACOLOGY, (1997 Apr 11) 324 (1) 109-16.
Journal code: 1254354. ISSN: 0014-2999.
- L2 ANSWER 153 OF 218 MEDLINE on STN
TI Role of ***palmitoylation*** of conserved cysteine residues of luteinizing hormone/human chorionadotropin ***receptors*** in ***receptor*** down-regulation.
SO MOLECULAR AND CELLULAR ENDOCRINOLOGY, (1997 Mar 28) 127 (2) 211-9.
Journal code: 7500844. ISSN: 0303-7207.
- L2 ANSWER 154 OF 218 MEDLINE on STN
TI N-terminal binding domain of Galpha subunits: involvement of amino acids 11-14 of Galphao in membrane attachment.
SO BIOCHEMICAL JOURNAL, (1997 Apr 1) 323 (Pt 1) 239-44.
Journal code: 2984726R. ISSN: 0264-6021.
- L2 ANSWER 155 OF 218 MEDLINE on STN
TI Purification and functional reconstitution with GTP-binding regulatory proteins of hexahistidine-tagged muscarinic acetylcholine receptors (m2 subtype).
SO JOURNAL OF BIOCHEMISTRY, (1996 Dec) 120 (6) 1232-8.
Journal code: 0376600. ISSN: 0021-924X.
- L2 ANSWER 156 OF 218 MEDLINE on STN
TI Constitutive activation of protein kinase B and phosphorylation of p47phox by a membrane-targeted phosphoinositide 3-kinase.
SO CURRENT BIOLOGY, (1996 Oct 1) 6 (10) 1271-8.
Journal code: 9107782. ISSN: 0960-9822.
- L2 ANSWER 157 OF 218 MEDLINE on STN
TI Reciprocal regulation of Gs alpha by palmitate and the beta gamma subunit.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF

- THE UNITED STATES OF
AMERICA, (1996 Dec 10) 93 (25) 14592-7.
Journal code: 7505876. ISSN: 0027-8424.
- L2 ANSWER 158 OF 218 MEDLINE on STN
TI Agonist stimulation increases the turnover rate of beta 2AR-bound
palmitate and promotes receptor depalmitoylation.
SO JOURNAL OF CELL BIOLOGY, (1996 Dec 10) 35 (49) 15923-32.
Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 159 OF 218 MEDLINE on STN
TI ***Palmitoylation*** : a post-translational modification that regulates
signalling from G-protein coupled ***receptors***.
SO BIOCHEMISTRY AND CELL BIOLOGY, (1996) 74 (4) 449-57. Ref: 70
Journal code: 8606068. ISSN: 0829-8211.
- L2 ANSWER 160 OF 218 MEDLINE on STN
TI Glycosylation, ***palmitoylation***, and localization of the human D2S
receptor in baculovirus-infected insect cells.
SO BIOCHEMISTRY, (1996 Dec 3) 35 (48) 15149-61.
Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 161 OF 218 MEDLINE on STN
TI Structural analysis of the histamine H2 receptor.
SO NIPPON RINSHO. JAPANESE JOURNAL OF CLINICAL MEDICINE,
(1996 Apr) 54 (4)
1144-8. Ref: 7
Journal code: 0420546. ISSN: 0047-1852.
- L2 ANSWER 162 OF 218 MEDLINE on STN
TI Alpha 1a-adrenoceptor polymorphism: pharmacological characterization and
association with benign prostatic hypertrophy.
SO BRITISH JOURNAL OF PHARMACOLOGY, (1996 Jul) 118 (6) 1403-8.
Journal code: 7502536. ISSN: 0007-1188.
- L2 ANSWER 163 OF 218 MEDLINE on STN
TI Autoacylation of G protein alpha subunits.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Sep 20) 271 (38)
23594-600.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 164 OF 218 MEDLINE on STN
TI CD36 is palmitoylated on both N- and C-terminal cytoplasmic tails.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Sep 13) 271 (37)
22315-20.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 165 OF 218 MEDLINE on STN
TI Palmitoylated cysteine 341 modulates phosphorylation of the
beta2-adrenergic receptor by the cAMP-dependent protein kinase.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Aug 30) 271 (35)
21490-7.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 166 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of endothelin ***receptor*** A. Differential
modulation of signal transduction activity by post-translational
modification.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Aug 23) 271 (34)
20811-9.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 167 OF 218 MEDLINE on STN
TI Molecular basis for subtype-specific desensitization of inhibitory
adenosine receptors. Analysis of a chimeric A1-A3 adenosine receptor.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Jun 21) 271 (25)
15272-8.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 168 OF 218 MEDLINE on STN
TI Differential distribution of alpha subunits and beta gamma subunits of
heterotrimeric G proteins on Golgi membranes of the exocrine pancreas.
SO JOURNAL OF CELL BIOLOGY, (1996 Jun) 133 (5) 1027-40.
Journal code: 0375356. ISSN: 0021-9525.
- L2 ANSWER 169 OF 218 MEDLINE on STN
TI Multiple features of the p59fyn src homology 4 domain define a motif for
immune-receptor tyrosine-based activation motif (ITAM) binding and for
plasma membrane localization.
SO JOURNAL OF CELL BIOLOGY, (1996 Jun) 133 (5) 1007-15.
Journal code: 0375356. ISSN: 0021-9525.
- L2 ANSWER 170 OF 218 MEDLINE on STN
TI G-protein palmitoyltransferase activity is enriched in plasma membranes.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Mar 22) 271 (12)
7154-9.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 171 OF 218 MEDLINE on STN
TI Cysteine-699, a possible ***palmitoylation*** site of the thyrotropin
receptor, is not crucial for cAMP or phosphoinositide signaling
but is necessary for full surface expression.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH
COMMUNICATIONS, (1996 Apr 25) 221 (3)
636-40.
Journal code: 0372516. ISSN: 0006-291X.
- L2 ANSWER 172 OF 218 MEDLINE on STN
TI Cysteine34 of the cytoplasmic tail of the cation-dependent mannose
6-phosphate receptor is reversibly palmitoylated and required for normal
trafficking and lysosomal enzyme sorting.
SO JOURNAL OF CELL BIOLOGY, (1996 Feb) 132 (4) 577-84.
Journal code: 0375356. ISSN: 0021-9525.
- L2 ANSWER 173 OF 218 MEDLINE on STN
TI Properties of the human arginine vasopressin V2 ***receptor*** after
site-directed mutagenesis of its putative ***palmitoylation*** site.
SO BIOCHEMICAL JOURNAL, (1996 Jan 15) 313 (Pt 2) 611-6.
Journal code: 2984726R. ISSN: 0264-6021.
- L2 ANSWER 174 OF 218 MEDLINE on STN
TI Functional importance of the amino terminus of Gq alpha.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Jan 5) 271 (1)
496-504.
Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 175 OF 218 MEDLINE on STN
TI ***Palmitoylation*** of the GluR6 kainate ***receptor***.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF
THE UNITED STATES OF
AMERICA, (1995 Dec 19) 92 (26) 12090-4.
Journal code: 7505876. ISSN: 0027-8424.
- L2 ANSWER 176 OF 218 MEDLINE on STN
TI Cloning and pharmacological characterization of the rabbit bradykinin B2
receptor.
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL
THERAPEUTICS, (1995 Dec) 275 (3)
1623-30.
Journal code: 0376362. ISSN: 0022-3565.
- L2 ANSWER 177 OF 218 MEDLINE on STN
TI Truncation of the receptor carboxyl terminus impairs membrane signaling
but not ligand binding of human ETB endothelin receptor.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH
COMMUNICATIONS, (1995 Dec 5) 217 (1)
354-62.
Journal code: 0372516. ISSN: 0006-291X.

- L2 ANSWER 178 OF 218 MEDLINE on STN
 TI Palmitoylation of brain capillary proteins.
 SO INTERNATIONAL JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, (1995 Nov) 27 (11) 1133-44.
 Journal code: 9508482. ISSN: 1357-2725.
- L2 ANSWER 179 OF 218 MEDLINE on STN
 TI Dynamic regulation of G-protein coupled ***receptor***
 palmitoylation : potential role in ***receptor*** function.
 SO BIOCHEMICAL SOCIETY TRANSACTIONS, (1995 Aug) 23 (3) 577-81.
 Ref: 35
 Journal code: 7506897. ISSN: 0300-5127.
- L2 ANSWER 180 OF 218 MEDLINE on STN
 TI Depalmitoylation of rhodopsin with hydroxylamine.
 SO METHODS IN ENZYMOLOGY, (1995) 250 348-61.
 Journal code: 0212271. ISSN: 0076-6879.
- L2 ANSWER 181 OF 218 MEDLINE on STN
 TI Dynamic ***palmitoylation*** of G-protein-coupled ***receptors*** in eukaryotic cells.
 SO METHODS IN ENZYMOLOGY, (1995) 250 300-14.
 Journal code: 0212271. ISSN: 0076-6879.
- L2 ANSWER 182 OF 218 MEDLINE on STN
 TI The lutropin/choriogonadotropin receptor is palmitoylated at intracellular cysteine residues.
 SO MOLECULAR ENDOCRINOLOGY, (1995 Feb) 9 (2) 141-50.
 Journal code: 8801431. ISSN: 0888-8809.
- L2 ANSWER 183 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** of metabotropic glutamate ***receptor*** subtype 4 but not 1 alpha expressed in permanently transfected BHK cells.
 SO BIOCHEMICAL SOCIETY TRANSACTIONS, (1995 Feb) 23 (1) 87S.
 Journal code: 7506897. ISSN: 0300-5127.
- L2 ANSWER 184 OF 218 MEDLINE on STN
 TI ***Receptor*** regulation of G protein ***palmitoylation***.
 SO CURRENT BIOLOGY, (1995 Feb) 5 (2) 156-60.
 Ref: 33
 Journal code: 7506897. ISSN: 0300-5127.
- L2 ANSWER 185 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** of G-protein-coupled ***receptors*** : a dynamic modification with functional consequences.
 SO BIOCHEMICAL SOCIETY TRANSACTIONS, (1995 Feb) 23 (1) 116-20.
 Ref: 40
 Journal code: 7506897. ISSN: 0300-5127.
- L2 ANSWER 186 OF 218 MEDLINE on STN
 TI Protein modification. Palmitoylation in G-protein signaling pathways.
 SO CURRENT BIOLOGY, (1995 Feb) 5 (2) 107-9. Ref: 17
 Journal code: 9107782. ISSN: 0960-9822.
- L2 ANSWER 187 OF 218 MEDLINE on STN
 TI Fatty acylation of alpha z. Effects of palmitoylation and myristoylation on alpha z signaling.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 Apr) 270 (16) 9667-75.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 188 OF 218 MEDLINE on STN
 TI The metabotropic glutamate receptor mGluR4, but not mGluR1 alpha, is palmitoylated when expressed in BHK cells.
 SO JOURNAL OF NEUROCHEMISTRY, (1995 Apr) 64 (4) 1548-55.
 Journal code: 2985190R. ISSN: 0022-3042.
- L2 ANSWER 189 OF 218 MEDLINE on STN
 TI The carboxyl terminus of bovine rhodopsin is not required for G protein activation.
 SO MOLECULAR PHARMACOLOGY, (1994 Dec) 46 (6) 1036-40.
 Journal code: 0035623. ISSN: 0026-895X.
- L2 ANSWER 190 OF 218 MEDLINE on STN
 TI Molecular cloning of a novel G protein-coupled receptor related to the opiate receptor family.
 SO JOURNAL OF NEUROCHEMISTRY, (1995 Jan) 64 (1) 34-40.
 Journal code: 2985190R. ISSN: 0022-3042.
- L2 ANSWER 191 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** of the alpha 2A-adrenergic ***receptor***. Analysis of the sequence requirements for and the dynamic properties of alpha 2A-adrenergic ***receptor*** ***palmitoylation***.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1994 Dec) 269 (50) 31915-22.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 192 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** of luteinizing hormone/human chorogonadotropin ***receptors*** in transfected cells. Abolition of ***palmitoylation*** by mutation of Cys-621 and Cys-622 residues in the cytoplasmic tail increases ligand-induced internalization of the ***receptor***.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1994 Dec) 269 (48) 30651-8.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 193 OF 218 MEDLINE on STN
 TI The palmitoylated cysteine of the cytoplasmic tail of alpha 2A-adrenergic receptors confers subtype-specific agonist-promoted downregulation.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1994 Nov) 91 (23) 11178-82.
 Journal code: 7505876. ISSN: 0027-8424.
- L2 ANSWER 194 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** of G protein-coupled ***receptor*** kinase, GRK6. Lipid modification diversity in the GRK family.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1994 Nov) 269 (45) 27791-4.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 195 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** but not the extreme amino-terminus of Gq alpha is required for coupling to the NK2 ***receptor***.
 SO FEBS LETTERS, (1994 Nov) 7 354 (2) 195-9.
 Journal code: 0155157. ISSN: 0014-5793.
- L2 ANSWER 196 OF 218 MEDLINE on STN
 TI Phosphorylation and ***palmitoylation*** of the human D2L dopamine ***receptor*** in Sf9 cells.
 SO JOURNAL OF NEUROCHEMISTRY, (1994 Nov) 63 (5) 1589-95.
 Journal code: 2985190R. ISSN: 0022-3042.
- L2 ANSWER 197 OF 218 MEDLINE on STN
 TI GAP-43 as a modulator of G protein transduction in the growth cone.
 SO PERSPECTIVES ON DEVELOPMENTAL NEUROBIOLOGY, (1992) 1 (1) 13-9. Ref: 68
 Journal code: 9417971. ISSN: 1064-0517.
- L2 ANSWER 198 OF 218 MEDLINE on STN
 TI Effects of carboxyl-terminal truncation on the stability and G protein-coupling activity of bovine rhodopsin.
 SO BIOCHEMISTRY, (1994 Jun) 33 (24) 7587-93.
 Journal code: 0370623. ISSN: 0006-2960.

- L2 ANSWER 199 OF 218 MEDLINE on STN
 TI Desensitization, phosphorylation and ***palmitoylation*** of the human dopamine D1 ***receptor***
 SO EUROPEAN JOURNAL OF PHARMACOLOGY, (1994 Mar 15) 267 (1) 7-19.
 Journal code: 1254354. ISSN: 0014-2999.
- L2 ANSWER 200 OF 218 MEDLINE on STN
 TI Palmitoylation of CD44 interferes with CD3-mediated signaling in human T lymphocytes.
 SO INTERNATIONAL IMMUNOLOGY, (1994 Feb) 6 (2) 213-21.
 Journal code: 8916182. ISSN: 0953-8178.
- L2 ANSWER 201 OF 218 MEDLINE on STN
 TI ***Receptor*** regulation of G-protein ***palmitoylation***
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1994 Mar 29) 91 (7) 2800-4.
 Journal code: 7505876. ISSN: 0027-8424.
- L2 ANSWER 202 OF 218 MEDLINE on STN
 TI Increased platelet-fibrinogen interaction in patients with hypercholesterolemia and hypertriglyceridemia.
 SO ATHEROSCLEROSIS, (1993 Oct) 103 (1) 13-20.
 Journal code: 0242543. ISSN: 0021-9151.
- L2 ANSWER 203 OF 218 MEDLINE on STN
 TI Palmitoylation is required for signaling functions and membrane attachment of Gq alpha and Gs alpha.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Nov 25) 268 (33) 25001-8.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 204 OF 218 MEDLINE on STN
 TI Increased ***palmitoylation*** of the Gs protein alpha subunit after activation by the beta-adrenergic ***receptor*** or cholera toxin.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Nov 15) 268 (32) 23769-72.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 205 OF 218 MEDLINE on STN
 TI Human serotonin1B ***receptor*** expression in S9 cells: phosphorylation, ***palmitoylation***, and adenylyl cyclase inhibition.
 SO BIOCHEMISTRY, (1993 Nov 2) 32 (43) 11727-33.
 Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 206 OF 218 MEDLINE on STN
 TI Serines and threonines in the gastrin-releasing peptide receptor carboxyl terminus mediate internalization.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Sep 25) 268 (27) 20285-90.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 207 OF 218 MEDLINE on STN
 TI Mutations of the alpha 2A-adrenergic ***receptor*** that eliminate detectable ***palmitoylation*** do not perturb ***receptor***-G-protein coupling.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Apr 15) 268 (11) 8003-11.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 208 OF 218 MEDLINE on STN
 TI Regulation of expression and function of muscarinic receptors.
 SO LIFE SCIENCES, (1993) 52 (5-6) 429-32. Ref: 14
 Journal code: 0375521. ISSN: 0024-3205.
- L2 ANSWER 209 OF 218 MEDLINE on STN
 TI Altered phosphorylation and desensitization patterns of a human beta 2-adrenergic receptor lacking the palmitoylated Cys341.
 SO EMBO JOURNAL, (1993 Jan) 12 (1) 349-56.
 Journal code: 8208664. ISSN: 0261-4189.
- L2 ANSWER 210 OF 218 MEDLINE on STN
 TI GAP-43 as a plasticity protein in neuronal form and repair.
 SO JOURNAL OF NEUROBIOLOGY, (1992 Jul) 23 (5) 507-20. Ref: 89
 Journal code: 0213640. ISSN: 0022-3034.
- L2 ANSWER 211 OF 218 MEDLINE on STN
 TI Agonist-modulated ***palmitoylation*** of beta 2-adrenergic ***receptor*** in S9 cells.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1992 Oct 25) 267 (30) 21733-7.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 212 OF 218 MEDLINE on STN
 TI Identification of ***palmitoylation*** sites on CD4, the human immunodeficiency virus ***receptor***
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1992 Jul 5) 267 (19) 13593-7.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 213 OF 218 MEDLINE on STN
 TI Retinoylation of HL-60 proteins. Comparison to labeling by palmitic and myristic acids.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Nov 5) 265 (31) 19158-62.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 214 OF 218 MEDLINE on STN
 TI Inhibition of the receptor-mediated endocytosis of ferric transferrin is associated with the covalent modification of the transferrin receptor with palmitic acid.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Sep 25) 265 (27) 16644-55.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 215 OF 218 MEDLINE on STN
 TI Cysteine-108 is an acylation site in myelin proteolipid protein.
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1990 Jul 16) 170 (1) 375-82.
 Journal code: 0372516. ISSN: 0006-291X.
- L2 ANSWER 216 OF 218 MEDLINE on STN
 TI Fatty acylated proteins as components of intracellular signaling pathways.
 SO BIOCHEMISTRY, (1990 Mar 20) 29 (11) 2623-34. Ref: 155
 Journal code: 0370623. ISSN: 0006-2960.
- L2 ANSWER 217 OF 218 MEDLINE on STN
 TI ***Palmitoylation*** of the human beta 2-adrenergic ***receptor***. Mutation of Cys341 in the carboxyl tail leads to an uncoupled nonpalmitoylated form of the ***receptor***
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1989 May 5) 264 (13) 7564-9.
 Journal code: 2985121R. ISSN: 0021-9258.
- L2 ANSWER 218 OF 218 MEDLINE on STN
 TI Two classes of fatty acid acylated proteins exist in eukaryotic cells.
 SO EMBO JOURNAL, (1985 May) 4 (5) 1137-44.
 Journal code: 8208664. ISSN: 0261-4189.

=> d his

(FILE 'HOME' ENTERED AT 10:49:58 ON 23 DEC 2003)

FILE 'MEDLINE' ENTERED AT 10:50:38 ON 23 DEC 2003

L1 670 S PALMITOYLATION
L2 218 S L1(P)RECEPTOR#
L3 6 S L1(P)ARRESTIN#
L4 11 S L2(P)CHIMER?

=> d 13 1-6 ti so

L3 ANSWER 1 OF 6 MEDLINE on STN
TI ***Palmitoylation*** of the V2 vasopressin receptor carboxyl tail enhances beta- ***arrestin*** recruitment leading to efficient receptor endocytosis and ERK1/2 activation.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 Oct 17) 278 (42) 41541-51.
Journal code: 2985121R. ISSN: 0021-9258.

L3 ANSWER 2 OF 6 MEDLINE on STN
TI Subtype-specific regulation of receptor internalization and recycling by the carboxyl-terminal domains of the human A1 and rat A3 adenosine receptors: consequences for agonist-stimulated translocation of arrestin3.
SO BIOCHEMISTRY, (2002 Dec 17) 41 (50) 14748-61.
Journal code: 0370623. ISSN: 0006-2960.

L3 ANSWER 3 OF 6 MEDLINE on STN
TI Coupling of endothelin receptors to the ERK/MAP kinase pathway. Roles of palmitoylation and G(alpha)q.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (2001 Oct) 268 (20) 5449-59.
Journal code: 0107600. ISSN: 0014-2956.

L3 ANSWER 4 OF 6 MEDLINE on STN
TI Characterization of sequence determinants within the carboxyl-terminal domain of chemokine receptor CCR5 that regulate signaling and receptor internalization.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Sep 14) 276 (37) 34408-18.
Journal code: 2985121R. ISSN: 0021-9258.

L3 ANSWER 5 OF 6 MEDLINE on STN
TI Mechanisms of endothelin receptor subtype-specific targeting to distinct intracellular trafficking pathways.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Sep 7) 276 (36) 34041-50.
Journal code: 2985121R. ISSN: 0021-9258.

L3 ANSWER 6 OF 6 MEDLINE on STN
TI ***Palmitoylation*** of the luteinizing hormone/human chorionic gonadotropin receptor regulates receptor interaction with the ***arrestin***-mediated internalization pathway.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (2001 Mar) 268 (6) 1631-9.
Journal code: 0107600. ISSN: 0014-2956.

=> d his

(FILE 'HOME' ENTERED AT 10:49:58 ON 23 DEC 2003)

FILE 'MEDLINE' ENTERED AT 10:50:38 ON 23 DEC 2003

L1 670 S PALMITOYLATION
L2 218 S L1(P)RECEPTOR#
L3 6 S L1(P)ARRESTIN#
L4 11 S L2(P)CHIMER?

=> d 14 1-11 ti so

L4 ANSWER 1 OF 11 MEDLINE on STN
TI Potential role of GPCR-signaling via membrane targeting of G protein alpha subunits.
SO JOURNAL OF RECEPTOR AND SIGNAL TRANSDUCTION RESEARCH, (2002 Feb-Nov) 22

(1-4) 267-81.

Journal code: 9509432. ISSN: 1079-9893.

L4 ANSWER 2 OF 11 MEDLINE on STN
TI Subtype-specific regulation of receptor internalization and recycling by the carboxyl-terminal domains of the human A1 and rat A3 adenosine receptors: consequences for agonist-stimulated translocation of arrestin3.
SO BIOCHEMISTRY, (2002 Dec 17) 41 (50) 14748-61.
Journal code: 0370623. ISSN: 0006-2960.

L4 ANSWER 3 OF 11 MEDLINE on STN
TI Differential palmitoylation directs the AMPA receptor-binding protein ABP to spines or to intracellular clusters.
SO JOURNAL OF NEUROSCIENCE, (2002 May 1) 22 (9) 3493-503.
Journal code: 8102140. ISSN: 1529-2401.

L4 ANSWER 4 OF 11 MEDLINE on STN
TI C-terminal domain of the Epstein-Barr virus LMP2A membrane protein contains a clustering signal.
SO JOURNAL OF VIROLOGY, (2001 Nov) 75 (22) 10941-9.
Journal code: 0113724. ISSN: 0022-538X.

L4 ANSWER 5 OF 11 MEDLINE on STN
TI Mechanisms of endothelin receptor subtype-specific targeting to distinct intracellular trafficking pathways.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Sep 7) 276 (36) 34041-50.
Journal code: 2985121R. ISSN: 0021-9258.

L4 ANSWER 6 OF 11 MEDLINE on STN
TI Identification of an outer segment targeting signal in the COOH terminus of rhodopsin using transgenic *Xenopus* laevis.
SO JOURNAL OF CELL BIOLOGY, (2000 Dec 25) 151 (7) 1369-80.
Journal code: 0375356. ISSN: 0021-9252.

L4 ANSWER 7 OF 11 MEDLINE on STN
TI The amino terminus of the fourth cytoplasmic loop of rhodopsin modulates rhodopsin-transducin interaction.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 21) 275 (3) 1930-6.
Journal code: 2985121R. ISSN: 0021-9258.

L4 ANSWER 8 OF 11 MEDLINE on STN
TI The PH domain and the polybasic c domain of cytohesin-1 cooperate specifically in plasma membrane association and cellular function.
SO MOLECULAR BIOLOGY OF THE CELL, (1998 Aug) 9 (8) 1981-94.
Journal code: 9201390. ISSN: 1059-1524.

L4 ANSWER 9 OF 11 MEDLINE on STN
TI Influence of the cytosolic carboxyl termini of human B1 and B2 kinin receptors on receptor sequestration, ligand internalization, and signal transduction.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Jan 30) 273 (5) 2617-23.
Journal code: 2985121R. ISSN: 0021-9258.

L4 ANSWER 10 OF 11 MEDLINE on STN
TI Rescue of functional interactions between the alpha2A-adrenoreceptor and acylation-resistant forms of G1alpha by expressing the proteins from chimeric open reading frames.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Sep 26) 272 (39) 24673-8.
Journal code: 2985121R. ISSN: 0021-9258.

L4 ANSWER 11 OF 11 MEDLINE on STN
TI Molecular basis for subtype-specific desensitization of inhibitory adenosine receptors. Analysis of a chimeric A1-A3 adenosine receptor.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Jun 21) 271 (25) 15272-8.

Journal code: 2985121R, ISSN: 0021-9258.

=> log y

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		12.89	13.10

STN INTERNATIONAL LOGOFF AT 10:52:38 ON 23 DEC 2003

*****STN Columbus*****

FILE 'HOME' ENTERED AT 14:23:23 ON 23 DEC 2003

=> file medline
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 14:23:33 ON 23 DEC 2003

FILE LAST UPDATED: 20 DEC 2003 (20031220/UP). FILE COVERS 1958 TO DATE.

On December 14, 2003, the 2004 MeSH terms were loaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and http://www.nih.gov/pubs/yeichbull/nd03/nd03_mesh.html for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s npxy
L1 16 NPXXY

=> d 1-16 ti so

L1 ANSWER 1 OF 16 MEDLINE on STN
TI Functional role of the ***NPxxY*** motif in internalization of the type 2 vasopressin receptor in LLC-PK1 cells.
SO AMERICAN JOURNAL OF PHYSIOLOGY. CELL PHYSIOLOGY, (2003 Oct) 285 (4)
C750-62.
Journal code: 100901225. ISSN: 0363-6143.

L1 ANSWER 2 OF 16 MEDLINE on STN
TI Structure of cholecystokinin receptor binding sites and mechanism of activation/inactivation by agonists/antagonists.
SO PHARMACOLOGY AND TOXICOLOGY, (2002 Dec) 91 (6) 313-20.
Ref: 39
Journal code: 8702180. ISSN: 0901-9928.

L1 ANSWER 3 OF 16 MEDLINE on STN
TI Role of the conserved ***NPxxY*** (x)5,6F motif in the rhodopsin ground state and during activation.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (2003 Mar 4) 100 (5) 2290-5.
Journal code: 7505876. ISSN: 0027-8424.

L1 ANSWER 4 OF 16 MEDLINE on STN
TI Conserved helix 7 tyrosine acts as a multistate conformational switch in the 5HT2C receptor. Identification of a novel "locked-on" phenotype and double revertant mutations.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Sep 27) 277 (39) 36577-84.
Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 5 OF 16 MEDLINE on STN
TI Differential roles of the ***NPXXY*** motif in formyl peptide receptor signaling.
SO JOURNAL OF IMMUNOLOGY, (2001 Mar 15) 166 (6) 4099-105.
Journal code: 2985117R. ISSN: 0022-1767.

L1 ANSWER 6 OF 16 MEDLINE on STN

TI Internalisation of the protease-activated receptor 1: role of the third intracellular loop and of the cytoplasmic tail.
SO INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, (2001 Jun) 7 (6) 653-8.
Journal code: 9810955. ISSN: 1107-3756.

L1 ANSWER 7 OF 16 MEDLINE on STN
TI A single amino acid substitution (N297A) in the conserved ***NPXXY*** sequence of the human N-formyl peptide receptor results in inhibition of desensitization and endocytosis, and a dose-dependent shift in p42/44 mitogen-activated protein kinase activation and chemotaxis.
SO BIOCHEMICAL JOURNAL, (2000 Dec 1) 352 Pt 2 399-407.
Journal code: 2984726R. ISSN: 0264-6021.

L1 ANSWER 8 OF 16 MEDLINE on STN
TI Mechanisms and functions of AT(1) angiotensin receptor internalization.
SO REGULATORY PEPTIDES, (2000 Jul 28) 91 (1-3) 29-44. Ref: 171
Journal code: 8100479. ISSN: 0167-0115.

L1 ANSWER 9 OF 16 MEDLINE on STN
TI Mutation of tyrosine 318 (Y318F) in the delta-opioid receptor attenuates tyrosine phosphorylation, agonist-dependent receptor internalization, and mitogen-activated protein kinase activation.
SO BRAIN RESEARCH. MOLECULAR BRAIN RESEARCH, (2000 Jun 23) 79 (1-2) 55-66.
Journal code: 8908640. ISSN: 0169-328X.

L1 ANSWER 10 OF 16 MEDLINE on STN
TI Three dimensional structure of the seventh transmembrane helical domain of the G-protein receptor, rhodopsin.
SO MOLECULAR VISION, (2000 Jul 27) 6 125-31.
Journal code: 9605351. ISSN: 1090-0535.

L1 ANSWER 11 OF 16 MEDLINE on STN
TI Mutation of Asn-391 within the conserved ***NPXXY*** motif of the cholecystokinin B receptor abolishes Gq protein activation without affecting its association with the receptor.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jun 9) 275 (23) 17321-7.
Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 12 OF 16 MEDLINE on STN
TI Interaction of the somatostatin receptor subtype 1 with the human homolog of the Shk1 kinase-binding protein from yeast.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Mar 31) 275 (13) 9557-62.
Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 13 OF 16 MEDLINE on STN
TI Light-induced exposure of the cytoplasmic end of transmembrane helix seven in rhodopsin.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1998 Oct 27) 95 (22) 12854-9.
Journal code: 7505876. ISSN: 0027-8424.

L1 ANSWER 14 OF 16 MEDLINE on STN
TI The cytoplasmic tail of the human somatostatin receptor type 5 is crucial for interaction with adenylyl cyclase and in mediating desensitization and internalization.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Aug 14) 273 (33) 21416-22.
Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 15 OF 16 MEDLINE on STN
TI Constitutive activation of opsin by mutation of methionine 257 on transmembrane helix 6.
SO BIOCHEMISTRY, (1998 Jun 2) 37 (22) 8253-61.
Journal code: 0370623. ISSN: 0006-2960.

L1 ANSWER 16 OF 16 MEDLINE on STN

TI Angiotensin II receptor endocytosis involves two distinct regions of the cytoplasmic tail. A role for residues on the hydrophobic face of a putative amphipathic helix.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 Sep 22) 270 (38) 22153-9.

Journal code: 2985121R. ISSN: 0021-9258.

=> s chimera?

L2 33017 CHIMER?

=> s vasopressin or neurotensin or oxytocin

23583 VASOPRESSIN

4206 NEUROTENSIN

16266 OXYTOCIN

L3 39988 VASOPRESSIN OR NEUROTENSIN OR OXYTOCIN

=> s l2(p)l3

L4 39 L2(P)L3

=> d 1-39 ti so

L4 ANSWER 1 OF 39 MEDLINE on STN

TI Active peptidic mimics of the second intracellular loop of the V(1A) vasopressin receptor are structurally related to the second intracellular rhodopsin loop: a combined 1H NMR and biochemical study.

SO BIOCHEMISTRY, (2003 Jul 15) 42 (27) 8204-13.

Journal code: 0370623. ISSN: 0006-2960.

L4 ANSWER 2 OF 39 MEDLINE on STN

TI Trafficking patterns of beta-arrestin and G protein-coupled receptors determined by the kinetics of beta-arrestin deubiquitination.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 Apr 18) 278 (16) 14998-506.

Journal code: 2985121R. ISSN: 0021-9258.

L4 ANSWER 3 OF 39 MEDLINE on STN

TI The stability of the G protein-coupled receptor-beta-arrestin interaction determines the mechanism and functional consequence of ERK activation.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 Feb 21) 278 (3) 6258-67.

Journal code: 2985121R. ISSN: 0021-9258.

L4 ANSWER 4 OF 39 MEDLINE on STN

TI Critical independent regions in the VWF propeptide and mature VWF that enable normal VWF storage.

SO BLOOD, (2003 Feb 15) 101 (4) 1384-91.

Journal code: 7603509. ISSN: 0006-4971.

L4 ANSWER 5 OF 39 MEDLINE on STN

TI Cholesterol and steroid hormones: modulators of oxytocin receptor function.

SO PROGRESS IN BRAIN RESEARCH, (2002) 139 43-55. Ref: 68

Journal code: 0376441. ISSN: 0079-6123.

L4 ANSWER 6 OF 39 MEDLINE on STN

TI Lysine 270 in the third intracellular domain of the oxytocin receptor is an important determinant for G alpha(q) coupling specificity.

SO MOLECULAR ENDOCRINOLOGY, (2002 Apr 16) 16 (4) 814-23.

Journal code: 8801431. ISSN: 0888-8809.

L4 ANSWER 7 OF 39 MEDLINE on STN

TI Variant amino acids in the extracellular loops of murine and human vasopressin V2 receptors account for differences in cell surface expression and ligand affinity.

SO MOLECULAR ENDOCRINOLOGY, (2002 Apr 16) 16 (4) 799-813.

Journal code: 8801431. ISSN: 0888-8809.

L4 ANSWER 8 OF 39 MEDLINE on STN

TI Transplanted clonal neural stem-like cells respond to remote photic stimulation following incorporation within the suprachiasmatic nucleus.

SO EXPERIMENTAL NEUROLOGY, (2002 Apr) 174 (2) 162-8.

Journal code: 0370712. ISSN: 0014-4886.

L4 ANSWER 9 OF 39 MEDLINE on STN

TI Aquaporin-2: COOH terminus is necessary but not sufficient for routing to the apical membrane.

SO AMERICAN JOURNAL OF PHYSIOLOGY. RENAL PHYSIOLOGY, (2002 Feb) 282 (2)

F330-40.

Journal code: 100901990. ISSN: 0363-6127.

L4 ANSWER 10 OF 39 MEDLINE on STN

TI Engineering a V(2) vasopressin receptor agonist- and regulator of G-protein-signaling-sensitive G protein.

SO ANALYTICAL BIOCHEMISTRY, (2002 Jan 15) 300 (2) 212-20.

Journal code: 0370535. ISSN: 0003-2697.

L4 ANSWER 11 OF 39 MEDLINE on STN

TI Molecular modelling study of the role of cholesterol in the stimulation of the oxytocin receptor.

SO ACTA BIOCHIMICA POLONICA, (2001) 48 (1) 83-93.

Journal code: 14520300R. ISSN: 0001-527X.

L4 ANSWER 12 OF 39 MEDLINE on STN

TI Structural requirements for V2 vasopressin receptor proteolytic cleavage.

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1999 Dec) 266 (2) 538-48.

Journal code: 0107600. ISSN: 0014-2956.

L4 ANSWER 13 OF 39 MEDLINE on STN

TI Role of the human V1 vasopressin receptor COOH terminus in internalization

and mitogenic signal transduction.

SO AMERICAN JOURNAL OF PHYSIOLOGY. ENDOCRINOLOGY AND METABOLISM, (2001 Jul)

281 (1) E81-92.

Journal code: 100901226. ISSN: 0193-1849.

L4 ANSWER 14 OF 39 MEDLINE on STN

TI Arrestin effects on internalization of vasopressin receptors.

SO MOLECULAR PHARMACOLOGY, (2001 Jun) 59 (6) 1395-401.

Journal code: 00955623. ISSN: 0026-895X.

L4 ANSWER 15 OF 39 MEDLINE on STN

TI Critical role of a subdomain of the N-terminus of the V1a vasopressin receptor for binding agonists but not antagonists; functional rescue by the oxytocin receptor N-terminus.

SO BIOCHEMISTRY, (2000 Nov 7) 39 (44) 13524-33.

Journal code: 0370623. ISSN: 0006-2960.

L4 ANSWER 16 OF 39 MEDLINE on STN

TI Key amino acids of vasopressin V1a receptor responsible for the species difference in the affinity of OPC-21268.

SO FEBS LETTERS, (2000 Jan 28) 466 (2-3) 255-8.

Journal code: 0155157. ISSN: 0014-5793.

L4 ANSWER 17 OF 39 MEDLINE on STN

TI Transmembrane helix 5 is critical for the high water permeability of aquaporin.

SO BIOCHEMISTRY, (1999 Dec 7) 38 (49) 16340-6.

Journal code: 0370623. ISSN: 0006-2960.

L4 ANSWER 18 OF 39 MEDLINE on STN

TI Chemical syntheses and biological studies on dimeric ***chimeras*** of ***oxytocin*** and the V(2)-antagonist, d(CH(2)(5))D-Ile(2),

- lle(4)arginine ***vasopressin***
 SO JOURNAL OF MEDICINAL CHEMISTRY, (1999 Dec 2) 42 (24) 5002-9.
 Journal code: 9716531. ISSN: 0022-2623.
- L4 ANSWER 19 OF 39 MEDLINE on STN
 TI A single negatively charged residue affects the orientation of a membrane protein in the inner membrane of *Escherichia coli* only when it is located adjacent to a transmembrane domain.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Nov 19) 274 (47) 33757-63.
 Journal code: 2985121R. ISSN: 0021-9258.
- L4 ANSWER 20 OF 39 MEDLINE on STN
 TI Effects of ***vasopressin***-mastoparan ***chimeric*** peptides on insulin release and G-protein activity.
 SO REGULATORY PEPTIDES, (1999 Jun 30) 82 (1-3) 45-51.
 Journal code: 8100479. ISSN: 0167-0115.
- L4 ANSWER 21 OF 39 MEDLINE on STN
 TI Metanephric rat-mouse chimeras to study cell lineage of the nephron.
 SO DEVELOPMENTAL GENETICS, (1999) 24 (3-4) 230-40.
 Journal code: 7909963. ISSN: 0192-253X.
- L4 ANSWER 22 OF 39 MEDLINE on STN
 TI Cellular trafficking of G protein-coupled receptor/beta-arrestin endocytic complexes.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Apr 16) 274 (16) 10999-1006.
 Journal code: 2985121R. ISSN: 0021-9258.
- L4 ANSWER 23 OF 39 MEDLINE on STN
 TI Identification of neurohypophyseal hormone receptor domains involved in ligand binding and G protein coupling.
 SO ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1998) 449 371-85. Ref: 27
 Journal code: 0121103. ISSN: 0065-2598.
- L4 ANSWER 24 OF 39 MEDLINE on STN
 TI Molecular aspects of vasopressin receptor function.
 SO ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1998) 449 347-58.
 Journal code: 0121103. ISSN: 0065-2598.
- L4 ANSWER 25 OF 39 MEDLINE on STN
 TI Biochemical mechanisms of calcium mobilisation induced by mastoparan and chimeric hormone-mastoparan constructs.
 SO CELL CALCIUM, (1998 Jul) 24 (1) 27-34.
 Journal code: 8006226. ISSN: 0143-4160.
- L4 ANSWER 26 OF 39 MEDLINE on STN
 TI ***Vasopressin*** regulated trafficking of a green fluorescent protein-aquaporin 2 ***chimera*** in LLC-PK1 cells.
 SO HISTOCHEMISTRY AND CELL BIOLOGY, (1998 Oct) 110 (4) 377-86.
 Journal code: 9506663. ISSN: 0948-6143.
- L4 ANSWER 27 OF 39 MEDLINE on STN
 TI Folding and cell surface expression of the vasopressin V2 receptor: requirement of the intracellular C-terminus.
 SO FEBS LETTERS, (1998 Mar 6) 424 (1-2) 57-62.
 Journal code: 0155157. ISSN: 0014-5793.
- L4 ANSWER 28 OF 39 MEDLINE on STN
 TI Reconstitution of a regulated trans epithelial water pathway in cells transfected with AQP2 and an AQP1/AQP2 hybrid containing the AQP2-C terminus.
 SO JOURNAL OF MEMBRANE BIOLOGY, (1998 Jan 15) 161 (2) 141-9.
 Journal code: 0211301. ISSN: 0022-2631.
- L4 ANSWER 29 OF 39 MEDLINE on STN
 TI ***Chimeric*** analogues of ***vasopressin*** and bradykinin.
 SO BIOCHEMICAL SOCIETY TRANSACTIONS, (1997 Aug) 25 (3) 432S.
 Journal code: 7506897. ISSN: 0300-5127.
- L4 ANSWER 30 OF 39 MEDLINE on STN
 TI Chimeric strategies for the rational design of bioactive analogs of small peptide hormones.
 SO FASEB JOURNAL, (1997 Jun) 11 (7) 582-90.
 Journal code: 8804484. ISSN: 0892-6638.
- L4 ANSWER 31 OF 39 MEDLINE on STN
 TI Separate agonist and peptide antagonist binding sites of the oxytocin receptor defined by their transfer into the V2 vasopressin receptor.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Dec 6) 271 (49) 31593-601.
 Journal code: 2985121R. ISSN: 0021-9258.
- L4 ANSWER 32 OF 39 MEDLINE on STN
 TI Carboxyl-terminal mutations of Gq alpha and Gs alpha that alter the fidelity of receptor activation.
 SO MOLECULAR PHARMACOLOGY, (1996 Oct) 50 (4) 885-90.
 Journal code: 0035623. ISSN: 0026-895X.
- L4 ANSWER 33 OF 39 MEDLINE on STN
 TI ***Chimeric*** rat/human ***neurotensin*** receptors localize a region of the receptor sensitive to binding of a novel, species-specific, picomolar affinity peptide.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Jun 21) 271 (25) 15054-9.
 Journal code: 2985121R. ISSN: 0021-9258.
- L4 ANSWER 34 OF 39 MEDLINE on STN
 TI Structure of the rat V1a vasopressin receptor gene and characterization of its promoter region and complete cDNA sequence of the 3'-end.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 Aug 25) 270 (34) 20042-50.
 Journal code: 2985121R. ISSN: 0021-9258.
- L4 ANSWER 35 OF 39 MEDLINE on STN
 TI Molecular biology of vasopressin receptors.
 SO SEMINARS IN NEPHROLOGY, (1994 Jul) 14 (4) 341-8. Ref: 57
 Journal code: 8110298. ISSN: 0270-9295.
- L4 ANSWER 36 OF 39 MEDLINE on STN
 TI A chimeric VIP-PACAP analogue but not VIP pseudopeptides function as VIP receptor antagonists.
 SO PEPTIDES, (1994 Jan) 15 (1) 95-100.
 Journal code: 8008690. ISSN: 0196-9781.
- L4 ANSWER 37 OF 39 MEDLINE on STN
 TI Interactions and uses of antisense peptides in affinity technology.
 SO JOURNAL OF CHROMATOGRAPHY, (1992 Apr 24) 597 (1-2) 29-36.
 Ref: 25
 Journal code: 0427043. ISSN: 0021-9673.
- L4 ANSWER 38 OF 39 MEDLINE on STN
 TI A negative retinoic acid response element in the rat oxytocin promoter restricts transcriptional stimulation by heterologous transactivation domains.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1992 Feb 15) 89 (4) 1209-13.
 Journal code: 7505876. ISSN: 0027-8424.
- L4 ANSWER 39 OF 39 MEDLINE on STN
 TI The human oxytocin gene promoter is regulated by estrogens.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Apr 15) 265 (11)

6098-103.

Journal code: 2985121R. ISSN: 0021-9258.

=> s "substance P"
128863 "SUBSTANCE"
2212584 "P"

L5 17642 "SUBSTANCE P"
("SUBSTANCE"(W)"P")

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FILE 'MEDLINE' ENTERED AT 14:23:33 ON 23 DEC 2003
L1 16 S NPXXY
L2 33017 S CHIMER?
L3 39988 S VASOPRESSIN OR NEUROTENSIN OR OXYTOCIN
L4 39 S L2(P)L3
L5 17642 S "SUBSTANCE P"

=> s l2(p)l5
L6 24 L2(P)L5

=> d l-24 ti so

L6 ANSWER 1 OF 24 MEDLINE on STN
TI Actions of galanin on neurotransmission in the submucous plexus of guinea pig small intestine.

SO European journal of pharmacology, (2003 Jun 13) 471 (1) 49-58.
Journal code: 1254354. ISSN: 0014-2999.

L6 ANSWER 2 OF 24 MEDLINE on STN
TI NK1 receptor fused to beta-arrestin displays a single-component, high-affinity molecular phenotype.
SO MOLECULAR PHARMACOLOGY, (2002 Jul) 62 (1) 30-7.
Journal code: 0035623. ISSN: 0026-895X.

L6 ANSWER 3 OF 24 MEDLINE on STN
TI Inhibition of morphine tolerance development by a ***substance***
opioid peptide ***chimera
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL
THERAPEUTICS, (2000 Dec) 295 (3)
1142-8.
Journal code: 0376362. ISSN: 0022-3565.

L6 ANSWER 4 OF 24 MEDLINE on STN
TI A ***substance*** ****p*** -opioid ***chimeric*** peptide as a unique nontolerance-forming analgesic.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF
AMERICA, (2000 Jun 20) 97 (13) 7621-6.
Journal code: 7505876. ISSN: 0027-8424.

L6 ANSWER 5 OF 24 MEDLINE on STN
TI Decrease in striatal enkephalin mRNA in mouse models of Huntington's disease.
SO EXPERIMENTAL NEUROLOGY, (2000 Apr) 162 (2) 328-42.
Journal code: 0370712. ISSN: 0014-4886.

L6 ANSWER 6 OF 24 MEDLINE on STN
TI The cytoplasmic tails of protease-activated receptor-1 and substance P receptor specify sorting to lysosomes versus recycling.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Jan 22) 274 (4) 2216-24.
Journal code: 2985121R. ISSN: 0021-9258.

L6 ANSWER 7 OF 24 MEDLINE on STN
TI Termination of signaling by protease-activated receptor-1 is linked to

lysosomal sorting.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF
THE UNITED STATES OF
AMERICA, (1998 Nov 10) 95 (23) 13698-702.
Journal code: 7505876. ISSN: 0027-8424.

L6 ANSWER 8 OF 24 MEDLINE on STN
TI Two domains of the beta subunit of neuronal nicotinic acetylcholine receptors contribute to the affinity of substance P.
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL
THERAPEUTICS, (1998 Aug) 286 (2)
619-26.
Journal code: 0376362. ISSN: 0022-3565.

L6 ANSWER 9 OF 24 MEDLINE on STN
TI Novel galanin receptor ligands.
SO JOURNAL OF PEPTIDE RESEARCH, (1998 Jan) 51 (1) 65-74.
Journal code: 9707067. ISSN: 1397-002X.

L6 ANSWER 10 OF 24 MEDLINE on STN
TI Structural motifs encoded by individual exons of the human neurokinin-1 receptor gene interact differentially with selective agonists and antagonists.
SO JOURNAL OF NEUROCHEMISTRY, (1996 Sep) 67 (3) 1191-9.
Journal code: 2985190R. ISSN: 0022-3042.

L6 ANSWER 11 OF 24 MEDLINE on STN
TI The unpredicted high affinities of a large number of naturally occurring tachykinins for chimeric NK1/NK3 receptors suggest a role for an inhibitory domain in determining receptor specificity.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Aug 23) 271 (34) 20250-7.
Journal code: 2985121R. ISSN: 0021-9258.

L6 ANSWER 12 OF 24 MEDLINE on STN
TI Galanin receptors in human basal forebrain differ from receptors in the hypothalamus: characterization using [125I]galanin (porcine) and [125I]galantide.
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL
THERAPEUTICS, (1995 Nov) 275 (2)
720-7.
Journal code: 0376362. ISSN: 0022-3565.

L6 ANSWER 13 OF 24 MEDLINE on STN
TI Molecular determinants of the species selectivity of neurokinin type 1 receptor antagonists.
SO MOLECULAR PHARMACOLOGY, (1995 Feb) 47 (2) 314-21.
Journal code: 0035623. ISSN: 0026-895X.

L6 ANSWER 14 OF 24 MEDLINE on STN
TI Both extracellular and transmembrane residues contribute to the species selectivity of the neurokinin-1 receptor antagonist WIN 51708.
SO MOLECULAR PHARMACOLOGY, (1994 Jul) 46 (1) 122-8.
Journal code: 0035623. ISSN: 0026-895X.

L6 ANSWER 15 OF 24 MEDLINE on STN
TI Evidence for a common molecular mode of action for chemically distinct nonpeptide antagonists at the neurokinin-1 (substance P) receptor.
SO MOLECULAR PHARMACOLOGY, (1994 Mar) 45 (3) 500-8.
Journal code: 0035623. ISSN: 0026-895X.

L6 ANSWER 16 OF 24 MEDLINE on STN
TI Characterization of antibodies to the rat ***substance*** ****p***
(NK-1) receptor and to a ***chimeric*** ***substance*** ****p***
receptor expressed in mammalian cells.
SO JOURNAL OF NEUROSCIENCE, (1994 Feb) 14 (2) 834-45.
Journal code: 8102140. ISSN: 0270-6474.

L6 ANSWER 17 OF 24 MEDLINE on STN

TI Chimeric galanin analogs that function as antagonists in the CNS are full agonists in gastrointestinal smooth muscle.

SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1993 Aug) 266 (2) 912-8.

Journal code: 0376362. ISSN: 0022-3565.

L6 ANSWER 18 OF 24 MEDLINE on STN

TI Two nonpeptide tachykinin antagonists act through epitopes on corresponding segments of the NK1 and NK2 receptors.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1993 Jul 1) 90 (13) 6194-8.

Journal code: 7505876. ISSN: 0027-8424.

L6 ANSWER 19 OF 24 MEDLINE on STN

TI ***Chimeric*** NK1 (***substance*** ***P*** YNK3 (neurokinin B) receptors. Identification of domains determining the binding specificity of tachykinin agonists.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Apr 15) 268 (11) 7893-8.

Journal code: 2985121R. ISSN: 0021-9258.

L6 ANSWER 20 OF 24 MEDLINE on STN

TI Molecular basis for the species selectivity of the substance P antagonist CP-96,345.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Feb 5) 268 (4) 2319-23.

Journal code: 2985121R. ISSN: 0021-9258.

L6 ANSWER 21 OF 24 MEDLINE on STN

TI Design of ***chimeric*** peptide ligands to galanin receptors and ***substance*** ***P*** receptors.

SO INTERNATIONAL JOURNAL OF PEPTIDE AND PROTEIN RESEARCH, (1992 Jun) 39 (6) 516-22.

Journal code: 0330420. ISSN: 0367-8377.

L6 ANSWER 22 OF 24 MEDLINE on STN

TI Delineation of structural domains involved in the subtype specificity of tachykinin receptors through ***chimeric*** formation of ***substance*** ***P*** /substance K receptors.

SO EMBO JOURNAL, (1992 Oct) 11 (10) 3585-91.

Journal code: 8208664. ISSN: 0261-4189.

L6 ANSWER 23 OF 24 MEDLINE on STN

TI The novel high-affinity antagonist, galantide, blocks the galanin-mediated inhibition of glucose-induced insulin secretion.

SO EUROPEAN JOURNAL OF PHARMACOLOGY, (1992 Jan 14) 210 (2) 183-8.

Journal code: 1254354. ISSN: 0014-2999.

L6 ANSWER 24 OF 24 MEDLINE on STN

TI M-15: high-affinity chimeric peptide that blocks the neuronal actions of galanin in the hippocampus, locus coeruleus, and spinal cord.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 Dec 1) 88 (23) 10961-5.

Journal code: 7505876. ISSN: 0027-8424.

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1 6,664,090	T Carboxylesterase nucleic acid molecules, proteins and uses thereof
2 6,660,474	T G protein-related kinase mutants in essential hypertension
3 6,649,595	T Regulation of biological events using novel compounds
4 6,645,766	T Shuttle vectors
5 6,642,024	T Guanylate-binding protein
6 6,638,744	T Canine cox-2 nucleic acid molecules and uses thereof
7 6,630,345	T Nucleic acids encoding a calcium independent receptor of .alpha.-latrotoxin, characterization and uses thereof
8 6,616,926	T Methods of modulating lipid metabolism and storage
9 6,613,956	T PI 3-kinase fusion mutants and uses thereof
10 6,613,506	T Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes
11 6,605,629	T Neurotrophin production secretion promoting agent
12 6,600,090	T Transgenic plants expressing puroindolines and methods for producing such plants
13 6,596,499	T Membrane molecule indicator compositions and methods
14 6,596,485	T Green fluorescent protein fusions with random peptides
15 6,586,191	T Method of identifying compounds that bind galanin receptor (GALR2)
16 6,586,173	T Methods for the detection of amino acid decarboxylases
17 6,582,701	T Equine Fc epsilon receptor alpha chain proteins and uses thereof
18 6,579,716	T Better emergence characteristics and improved seedling growth under low-light environments

- 19 6,576,750 **T** Flea peritrophin nucleic acid molecules, proteins and uses thereof
- 20 6,573,372 **T** Feline immunoglobulin E molecules and compositions there of
- 21 6,569,995 **T** Identification of a G protein-coupled receptor transcriptionally regulated by protein tyrosine kinase signaling in hematopoietic cells
- 22 6,566,489 **T** Syndecan-4 binding protein (S4BP) and uses thereof
- 23 6,562,617 **T** Fusions of scaffold proteins with random peptide libraries
- 24 6,562,576 **T** Yeast two-hybrid system and use thereof
- 25 6,551,786 **T** Screen assay for selecting protein-protein interaction modulators
- 26 6,548,632 **T** Fusions of scaffold proteins with random peptide libraries
- 27 6,548,249 **T** Fusions of scaffold proteins with random peptide libraries
- 28 6,534,640 **T** Methods and compositions to alter the cell surface expression of phosphatidylserine and other clot-promoting plasma membrane phospholipids
- 29 6,528,287 **T** Recombinant human serum transferrins containing peptides for inducing apoptosis in HIV-1 infected cells
- 30 6,514,696 **T** Transcriptionally regulated G protein-coupled receptor G2A
- 31 6,514,694 **T** Methods for the detection of encysted parasites
- 32 6,511,967 **T** Use of an internalizing transferrin receptor to image transgene expression
- 33 6,506,379 **T** Intramuscular delivery of recombinant AAV
- 34 6,495,604 **T** Cycloalkene derivatives, process for producing the same, and use
- 35 6,492,499 **T** Human pancreatitis-associated protein
- 36 6,492,128 **T** Drug screen targeting lipoprotein-membrane anchorage
- 37 6,489,448 **T** Antiparasitic helminth larval thiol specific antioxidant-antibodies, and uses thereof
- 38 6,489,442 **T** Heptahelix receptor and its use
- 39 6,489,140 **T** Flea ecdysone and ultraspiracle nucleic acid molecules, proteins and uses thereof
- 40 6,482,403 **T** Caniney IL-13 immunoregulatory proteins and uses thereof
- 41 6,479,253 **T** Serine protease inhibitor nucleic acid molecules and uses thereof
- 42 6,472,173 **T** Chemokine receptor obtained from a cDNA library of fetal liver-spleen
- 43 6,471,957 **T** Canine IL-4 immunoregulatory proteins and uses thereof
- 44 6,469,152 **T** Flea allantoinase nucleic acid molecules, proteins and uses thereof
- 45 6,468,769 **T** Nucleic acids encoding a heptahelix receptor, and methods of using them
- 46 6,461,813 **T** Multiparameter FACS assays to detect alterations in cell cycle regulation
- 47 6,455,686 **T** Dermatophagoides nucleic acid molecules, proteins and uses thereof
- 48 6,455,247 **T** Methods for screening for transdominant effector peptides and RNA molecules
- 49 6,455,039 **T** Anti-parasitic helminth macrophage migration inhibitory factor antibodies and uses thereof
- 50 6,448,073 **T** Isolated nucleic acid molecules encoding cancer associated antigens, the antigens per se, and uses thereof
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PAT.

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Title

1 6,562,587 **T** Polypeptides having opioid receptor activity, nucleic acids coding therefor and uses thereof

2 5,856,124 **T** DNA encoding high-affinity melatonin receptors

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